(FILE 'HOME' ENTERED AT 12:26:33 ON 29 JUN 2003)

FILE 'REGISTRY' ENTERED AT 12:26:42 ON 29 JUN 2003

L1 STRUCTURE UPLOADED

L2 4 S L1 SSS SAM

L3 70 S L1 SSS FULL

FILE 'CAPLUS, MEDLINE, USPATFULL, EUROPATFULL' ENTERED AT 12:28:14 ON 29 JUN 2003

FILE 'CAPLUS, MEDLINE, USPATFULL' ENTERED AT 12:28:41 ON 29 JUN 2003

L4 86 S L3

L5 8 S L4 AND (HEPATITIS C OR HCV)

L5 ANSWER 1 OF 8 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:695725 CAPLUS
DOCUMENT NUMBER: 137:210908
TITLE: Nucleotides, preparation thereof, and use as inhibitors of RNA viral polymerases
INVENTOR(S): Montgomery, John A.; Babu, Yarlagadda S.; Rowland, R. Scott; Chand, Pooran
PATENT ASSIGNEE(S): Biocryst Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

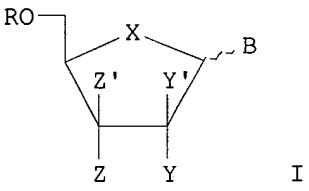
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002069903	A2	20020912	WO 2002-US6551	20020306
WO 2002069903	A3	20030227		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-273342P P 20010306
US 2001-285698P P 20010424
US 2001-331323P P 20011114

OTHER SOURCE(S): MARPAT 137:210908
GI

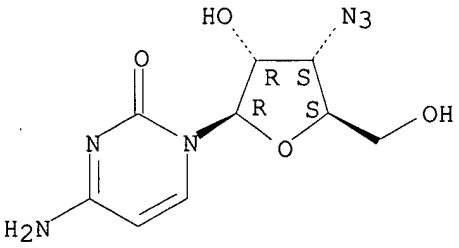


I

AB Antiviral nucleotides I were prepd. as inhibitors of RNA viral polymerases (no data), wherein X is selected from the group consisting of: O, S, N-R1, and CHR1; Y and Y' is individually selected from H, OR1, NR1R2, and N3; Z and Z' is individually selected from H, OR1, and NR1R2; R = H, monophosphate PO3R32, diphosphate P2O6R33, triphosphate P3O9R34; R1 and R2 is selected from H, alkyl, acyl, aryl which may be substituted or unsubstituted; R3 is selected from H, alkyl, alkenyl, alkynyl, aryl, acyloxyalkyl, and pivaloyloxyalkyl; B is selected from 5 or 6-substituted uracil or cytosine, pseudouracil, N-substituted pseudouracil, 2-thiouracil, 2-thiocytosine, 5- or 6-substituted 2-thiouracil and 2-thiocytosine, 6-azauracil, 5-azacytosine, 8-azapurines, and 7-aza-8-deazapurines. Substitutions may be halo-substituted alkyl, halo-substituted alkenyl, halo-substituted alkynyl, halo-substituted aryl, alkylthio, or NR1R2. When Z and Z' are H and Y or Y' is OH then B is not 5-Me uracil or cytosine; and pharmaceutically acceptable salts thereof, mono, di or triphosphate and prodrugs thereof. Thus, 1-(3'-deoxy-.beta.-D-ribofuranosyl)-2-thiocytosine was prepd. as inhibitors of RNA viral polymerases (no data).

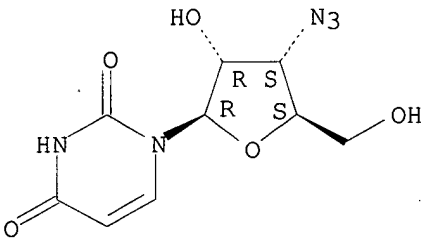
IT **70580-87-9P 70580-88-0P**
RL: BSU (Biological study, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation)
(Nucleotides, prepn. thereof, and use as inhibitors of RNA viral polymerases)
RN 70580-87-9 CAPLUS
CN Cytidine, 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 70580-88-0 CAPLUS
CN Uridine, 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 2 OF 8 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:555629 CAPLUS
DOCUMENT NUMBER: 137:125359
TITLE: Preparation of nucleoside derivatives as inhibitors of RNA-dependent RNA viral polymerase
INVENTOR(S): Carroll, Steven S.; Lafemina, Robert L.; Hall, Dawn L.; Himmelberger, Amy L.; Kuo, Lawrence C.; Maccoss, Malcolm; Olsen, David B.; Rutkowski, Carrie A.; Tomassini, Joanne E.; An, Haoyun; Bhat, Balkrishen; Bhat, Neelima; Cook, Phillip Dan; Eldrup, Anne B.; Guinosso, Charles J.; Prhavc, Marija; Prakash, Thazha P.
PATENT ASSIGNEE(S): Merck & Co., Inc., USA; Isis Pharmaceuticals, Inc.
SOURCE: PCT Int. Appl., 235 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002057425	A2	20020725	WO 2002-US1531	20020118

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS,

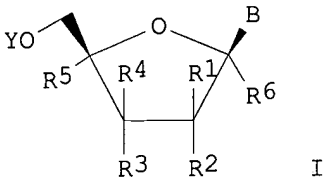
LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002147160 A1 20021010 US 2002-52318 20020118

PRIORITY APPLN. INFO.: US 2001-263313P P 20010122
US 2001-282069P P 20010406
US 2001-299320P P 20010619
US 2001-344528P P 20011025

OTHER SOURCE(S): MARPAT 137:125359

GI



I

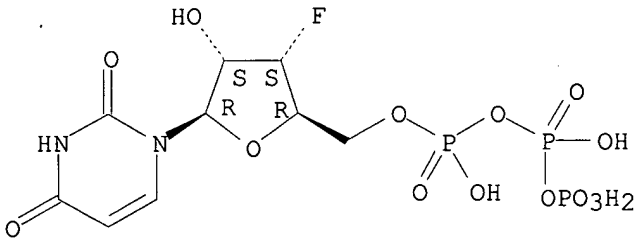
AB The present invention provides the prepn. of nucleoside compds. I, wherein B is nucleobase, Y is H, alkylcarbonyl, phosphate; R1 is H, alkenyl, alkynyl, alkyl; R2 and R3 are independently H, OH, halogen, alkyl, alkoxy, alkenyloxy, alkylthio, alkylcarbonyloxy, aryloxycrbonyl, azido, amino, alkylamino; R1 and R2 together with the carbon atom to which they are attached form a 3- to 6-membered heterocycle; R4 is H, OH, SH, NH2, alkylamino, cycloalkylamino, halogen, alkyl, alkoxy, CF3; R5 and R6 are independently H, hydroxymethyl, Me, fluoromethyl; and certain derivs. thereof which are inhibitors of RNA-dependent RNA viral polymerase. These compds. are inhibitors of RNA-dependent RNA viral replication and are useful for the treatment of RNA-dependent RNA viral infection. They are particularly useful as inhibitors of **hepatitis C** virus (**HCV**) NS5B polymerase, as inhibitors of **HCV** replication, and/or for the treatment of **hepatitis C** infection. The invention also describes pharmaceutical compns. contg. such nucleoside compds. alone or in combination with other agents active against RNA-dependent RNA viral infection, in particular **HCV** infection. Also disclosed are methods of inhibiting RNA-dependent RNA polymerase, inhibiting RNA-dependent RNA viral replication, and/or treating RNA-dependent RNA viral infection with the nucleoside compds. of the present invention. Thus, 4-amino-1-(2-C-methyl-.beta.-D-ribofuranosyl)-1H-pyrazolo[3,4-d]pyrimidine was prepd. as inhibitors of RNA-dependent RNA viral polymerase. Representative compds. tested in the **HCV** NS5B polymerase assay exhibited IC's less than 100 .mu.M. The compds. of the present invention were also evaluated for their ability to affect the replication of **Hepatitis C** Virus RNA in cultured hepatoma (HuH-7) cells contg. a sub-genomic **HCV** Replicon.

IT **123402-24-4P 123402-25-5P**
RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of nucleoside derivs. as inhibitors of RNA-dependent human RNA viral polymerase)

RN 123402-24-4 CAPLUS

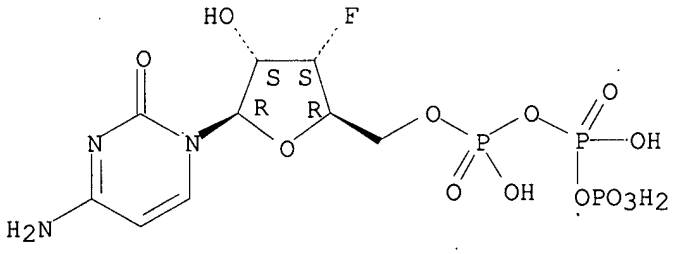
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 123402-25-5 CAPLUS
CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 3 OF 8 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:504634 CAPLUS
DOCUMENT NUMBER: 137:57536
TITLE: Remedies for **hepatitis C**
INVENTOR(S): Morioka, Masahiko; Ubasawa, Masaru; Arai, Masaaki
PATENT ASSIGNEE(S): Mitsubishi Pharma Corporation, Japan
SOURCE: PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002051425	A1	20020704	WO 2001-JP11365	20011225

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 2000-394620 A 20001226
JP 2001-23542 A 20010131
JP 2001-105585 A 20010404

OTHER SOURCE(S): MARPAT 137:57536

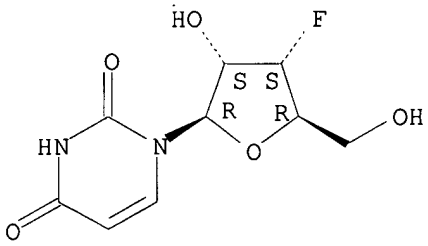
AB Excellent remedies for **hepatitis C** which contain as the active ingredients a 3'-deoxy-3'-fluorouridine deriv. and a

1-(3'-deoxy-3'-fluoro-.beta.-L-ribofuranosyl)uracil deriv. and show little side effects.

IT **57944-13-5DP**, 3'-Deoxy-3'-fluorouridine, derivs.
112668-56-1P 123402-24-4P 125217-37-0P
439579-20-1P 439579-21-2P 439579-22-3P
439579-24-5P 439579-25-6P 439579-26-7P
439579-28-9P 439579-32-5P 439579-34-7P
439579-36-9P 439579-37-0P 439579-38-1P
439579-40-5P 439579-41-6P 439579-42-7P
439579-43-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(deoxy-3'-fluorouridine deriv. and a 1-(3'-deoxy-3'-fluoro--L-ribofuranosyl)uracil deriv. as remedies for **hepatitis C**)

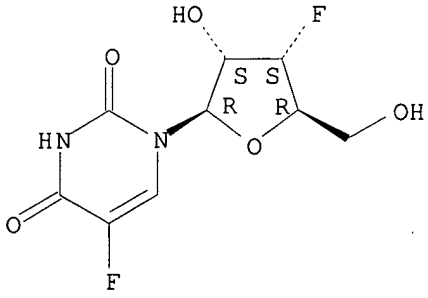
RN 57944-13-5 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



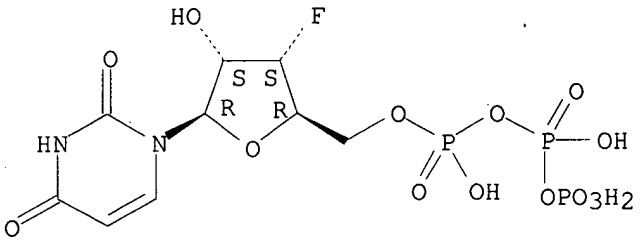
RN 112668-56-1 CAPLUS
CN Uridine, 3'-deoxy-3',5-difluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



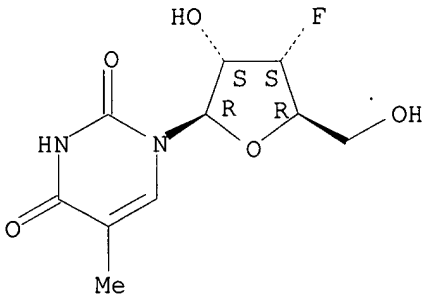
RN 123402-24-4 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



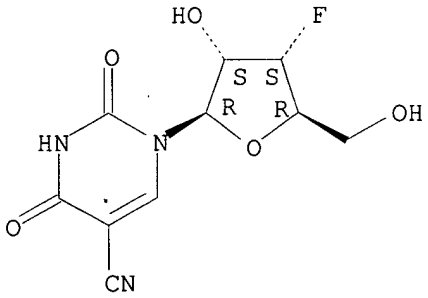
RN 125217-37-0 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



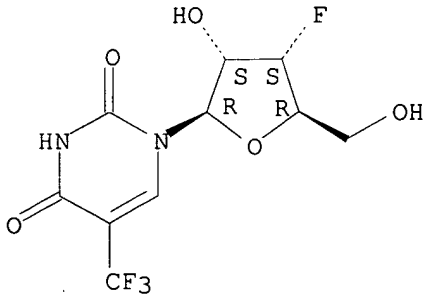
RN 439579-20-1 CAPLUS
CN Uridine, 5-cyano-3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



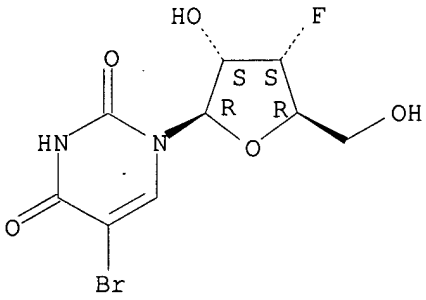
RN 439579-21-2 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



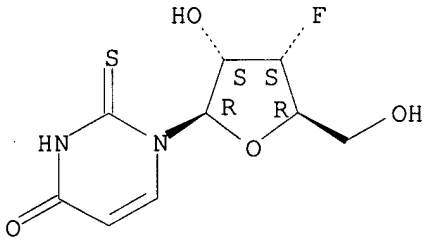
RN 439579-22-3 CAPLUS
CN Uridine, 5-bromo-3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



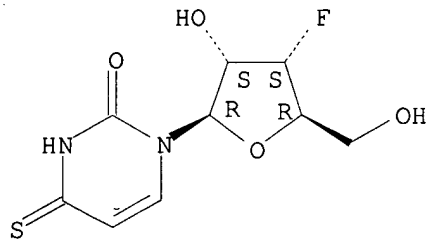
RN 439579-24-5 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro-2-thio- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



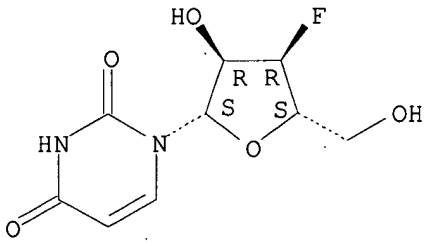
RN 439579-25-6 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro-4-thio- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



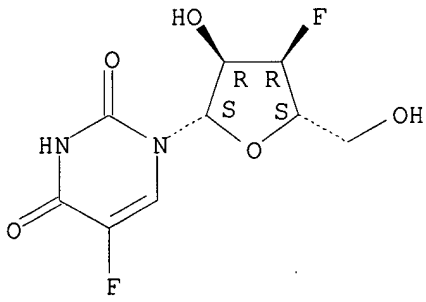
RN 439579-26-7 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-L-ribofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



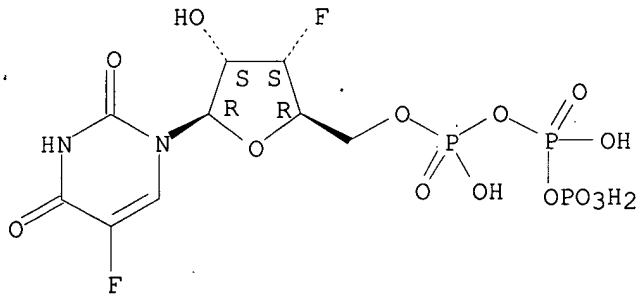
RN 439579-28-9 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-L-ribofuranosyl)-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



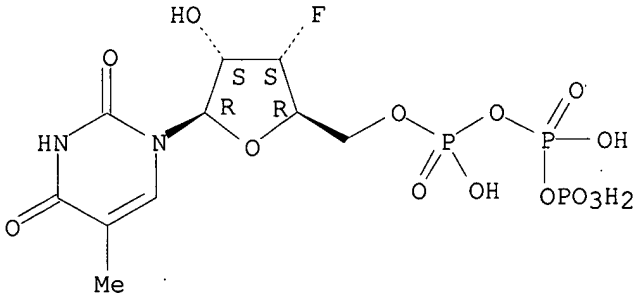
RN 439579-32-5 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3',5-difluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



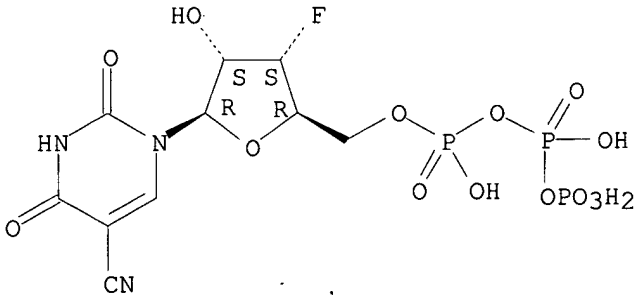
RN 439579-34-7 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



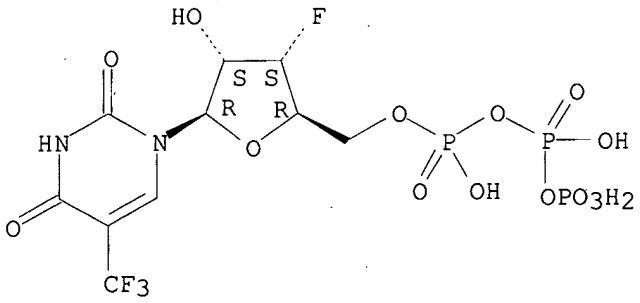
RN 439579-36-9 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 5-cyano-3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



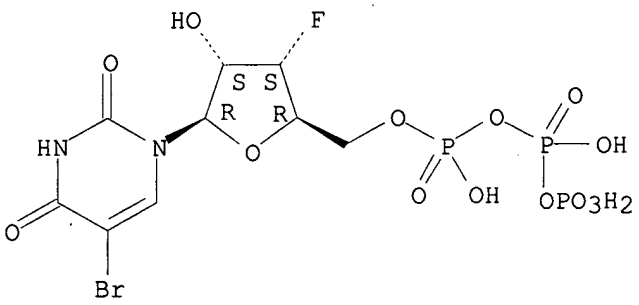
RN 439579-37-0 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



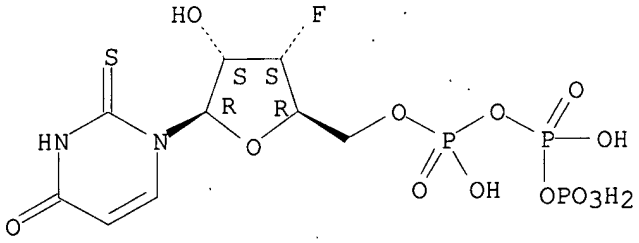
RN 439579-38-1 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 5-bromo-3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



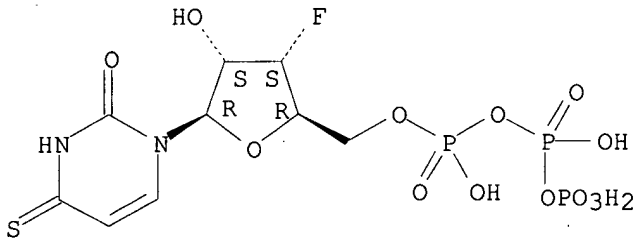
RN 439579-40-5 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro-2-thio- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



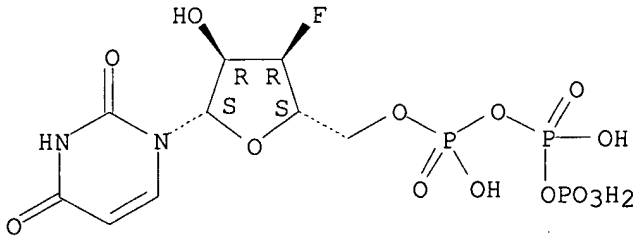
RN 439579-41-6 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro-4-thio- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



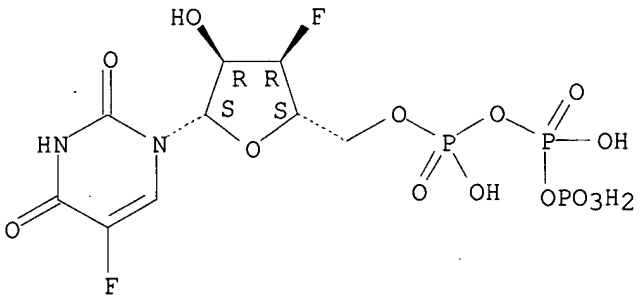
RN 439579-42-7 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-deoxy-3-fluoro-5-O-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-.beta.-L-ribofuranosyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 439579-43-8 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-deoxy-3-fluoro-5-O-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-.beta.-L-ribofuranosyl]-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



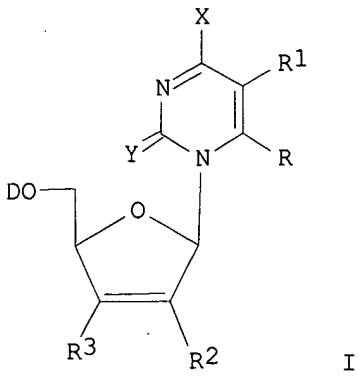
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L5 ANSWER 4 OF 8 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:314958 CAPLUS
DOCUMENT NUMBER: 136:340939
TITLE: Preparation of modified nucleosides for treatment of viral infections and abnormal cellular proliferation
INVENTOR(S): Stuyver, Lieven; Watanabe, Kyoichi A.
PATENT ASSIGNEE(S): Pharmasset Limited, USA
SOURCE: PCT Int. Appl., 230 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032920	A2	20020425	WO 2001-US46113	20011018
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002028749	A5	20020429	AU 2002-28749	20011018
US 2003087873	A1	20030508	US 2001-45292	20011018

PRIORITY APPLN. INFO.:
US 2000-241488P P 20001018
US 2001-282156P P 20010406
WO 2001-US46113 W 20011018

GI



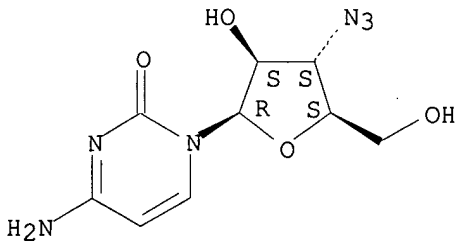
I

AB Modified nucleosides, e.g. I, wherein D is hydrogen, alkyl, acyl, monophosphate, diphosphate, triphosphate, monophosphate ester, diphosphate ester, triphosphate ester, phospholipid or amino acid; X is H, halogen, NH2, substituted amine, oxime, OH, alkoxy, SH, thioalkyl; Y is O, S, Se; R and R1 are independently H, alkyl, alkenyl, alkynyl, aryl, alkylaryl, halogen, NH2, substituted amine, oxime, hydrazine, OH, alkoxy, SH, thioalkyl, NO2, NO, CH2OH, CH2OH, ester, CONH2, amide, CN; R2 and R3 are independently H, halogen, OH, SH, OMe, SMe, NH2, NHMe, CH:CH2, CN, CH2NH2, CH2OH, CO2H; were prepd. for treating a Flaviviridae (including BVDV and **HCV**), Orthomyxoviridae (including Influenza A and B) or Paramyxoviridae (including RSV) infection, or conditions related to abnormal cellular proliferation, in a host, including animals, and esp. humans. This invention also provides an effective process to quantify the viral load, and in particular BVDV, **HCV** or West Nile Virus load, in a host, using real-time polymerase chain reaction ("TR-PCR"). Addnl., the invention discloses probe mols. that can fluoresce proportionally to the amt. of virus present in a sample. Thus, (1'R,2'S,3'R,4'R)-1-[2,3-dihydroxy-4-(hydroxymethyl)cyclopentan-1-yl]-5-fluorocytosine was prepd. and tested in vitro as antiviral and antitumor agent.

IT **60786-48-3P 415704-55-1P**
RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of modified nucleosides for treatment of viral infections and abnormal cellular proliferation)

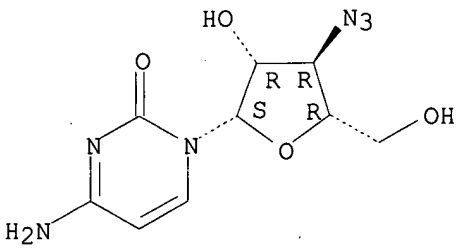
RN 60786-48-3 CAPLUS
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-azido-3-deoxy-.beta.-D-arabinofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 415704-55-1 CAPLUS
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-azido-3-deoxy-.beta.-L-arabinofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

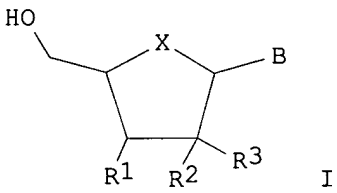


L5 ANSWER 5 OF 8 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:171918 CAPLUS
DOCUMENT NUMBER: 136:217007
TITLE: Preparation of antiviral nucleoside derivatives as inhibitors of subgenomic **hepatitis C** virus RNA replication
INVENTOR(S): Devos, Rene; Dymock, Brian William; Hobbs, Christopher John; Jiang, Wen-rong; Martin, Joseph Armstrong; Merrett, John Herbert; Najera, Isabel; Shimma, Nobuo; Tsukuda, Takuo
PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.
SOURCE: PCT Int. Appl., 225 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

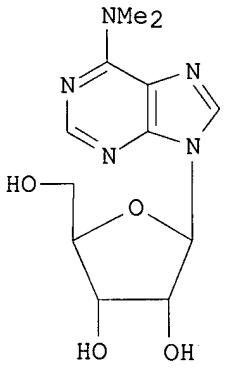
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018404	A2	20020307	WO 2001-EP9633	20010821
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003008841	A1	20030109	US 2001-923620	20010807
AU 2001095497	A5	20020313	AU 2001-95497	20010821
EP 1315736	A2	20030604	EP 2001-976128	20010821
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.:
GB 2000-21285 A 20000830
GB 2000-26611 A 20001031
WO 2001-EP9633 W 20010821

OTHER SOURCE(S): MARPAT 136:217007
GI



I



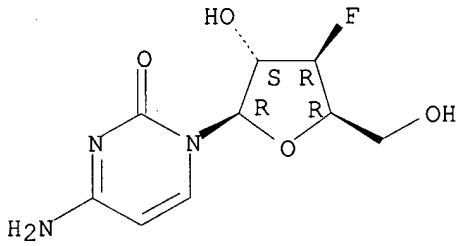
II

AB Nucleosides I , wherein R1 is hydrogen, hydroxy, alkyl; hydroxyalkyl, alkoxy, halogen, cyano, isocyano or azido; R2 is hydrogen, hydroxy, alkoxy, chlorine, bromine or iodine; R3 is hydrogen; or R2 and R3 together represent =CH2; or R2 and R3 represent fluorine; X is O, S or CH2; B is a substituted purine base, were prepd. as inhibitors of subgenomic **hepatitis C** virus (**HCV**) RNA replication.
Thus, nucleoside II was prepd. and tested for the inhibition of **HCV** RNA replication (EC50 = 0.6 .mu.M).

IT **26563-01-9P 125217-37-0P 129885-95-6P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of antiviral nucleoside derivs. as inhibitors of subgenomic **hepatitis C** virus RNA replication)

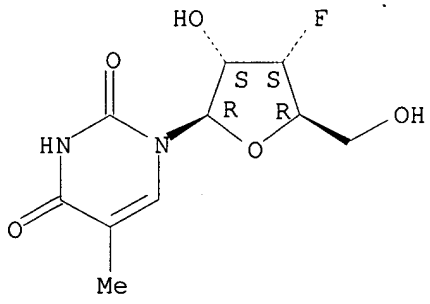
RN 26563-01-9 CAPLUS
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-deoxy-3-fluoro-.beta.-D-xylofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



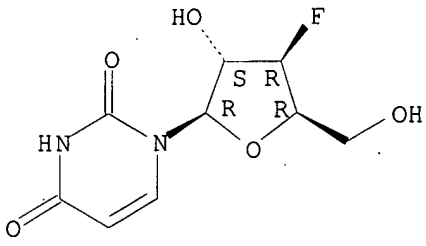
RN 125217-37-0 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 129885-95-6 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-D-xylofuranosyl)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 6 OF 8 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:617773 CAPLUS
DOCUMENT NUMBER: 135:175346
TITLE: Method for the treatment or prevention of flavivirus infections using nucleoside analogues
INVENTOR(S): Ismaili, Hicham Moulay Alaoui; Cheng, Yun-Xing; Lavallee, Jean-Francois; Siddiqui, Arshad; Storer, Richard
PATENT ASSIGNEE(S): Biochem Pharma Inc., Can.
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001060315	A2	20010823	WO 2001-CA197	20010219
WO 2001060315	A3	20030116		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001035278	A5	20010827	AU 2001-35278	20010219
EP 1296690	A2	20030402	EP 2001-907276	20010219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002019363	A1	20020214	US 2001-785235	20010220
NO 2002003884	A	20021017	NO 2002-3884	20020816

PRIORITY APPLN. INFO.: US 2000-183349P P 20000218
WO 2001-CA197 W 20010219

OTHER SOURCE(S): MARPAT 135:175346

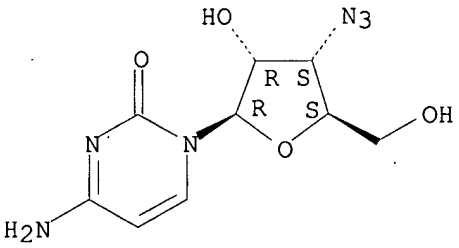
AB The present invention relates to a method for the treatment or prevention of Flavivirus infections using nucleoside analogs in a host comprising administering a therapeutically effective amt. of the nucleoside analog or a pharmaceutically acceptable salt thereof.

IT **70580-87-9 85708-20-9 123402-20-0**
123402-25-5
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(Uses)
(method for treatment or prevention of flavivirus infections using nucleoside analogs and their combination with other agents in relation to **hepatitis C** virus RNA-dependent RNA polymerase (NS5B protein))

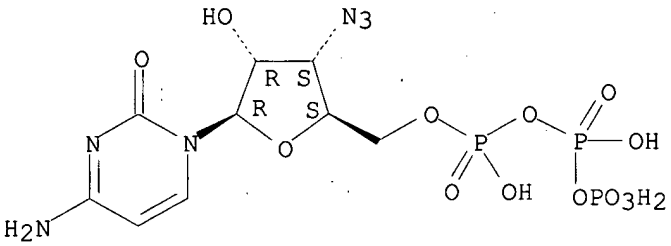
RN 70580-87-9 CAPLUS
CN Cytidine, 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



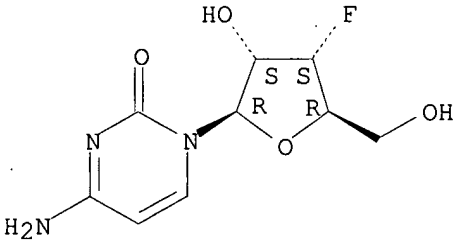
RN 85708-20-9 CAPLUS
CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



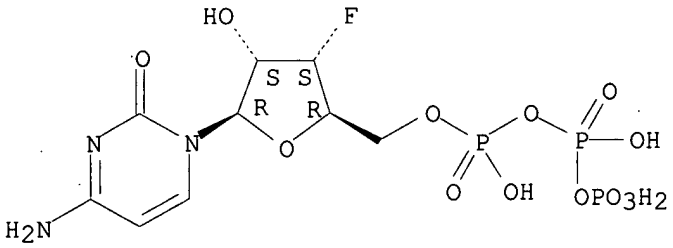
RN 123402-20-0 CAPLUS
CN Cytidine, 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 123402-25-5 CAPLUS
CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 7 OF 8 USPATFULL

ACCESSION NUMBER:	2003:11137 USPATFULL
TITLE:	Anti-**HCV** nucleoside derivatives
INVENTOR(S):	Devos, Rene, Welwyn Garden City, UNITED KINGDOM Dymock, Brian William, St. Albans, UNITED KINGDOM Hobbs, Christopher John, Hertford, UNITED KINGDOM Jiang, Wen-Rong, Welwyn Garden City, UNITED KINGDOM Martin, Joseph Armstrong, Harpenden, UNITED KINGDOM Merrett, John Herbert, Baldock, UNITED KINGDOM Najera, Isabel, St. Albans, UNITED KINGDOM Shimma, Nobuo, Chigasaki-shi, JAPAN Tsukuda, Takuo, Odawara-shi, JAPAN

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2003008841	A1	20030109	
APPLICATION INFO.:	US 2001-923620	A1	20010807	(9)

	NUMBER	DATE
PRIORITY INFORMATION:	GB 2000-21285	20000830
	GB 2000-26611	20001031

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	HOFFMANN-LA ROCHE INC., PATENT LAW DEPARTMENT, 340 KINGSLAND STREET, NUTLEY, NJ, 07110
NUMBER OF CLAIMS:	49
EXEMPLARY CLAIM:	1
LINE COUNT:	4872

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention comprises novel and known purine and pyrimidine nucleoside derivatives which have been discovered to be active against **hepatitis C** virus (**HCV**). The use of these derivatives for the treatment of **HCV** infection is claimed as are the novel nucleoside derivatives disclosed herein.

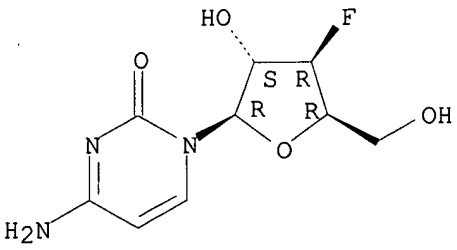
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **26563-01-9P 125217-37-0P 129885-95-6P**
(prepn. of antiviral nucleoside derivs. as inhibitors of subgenomic hepatitis C virus RNA replication)

RN 26563-01-9 USPATFULL

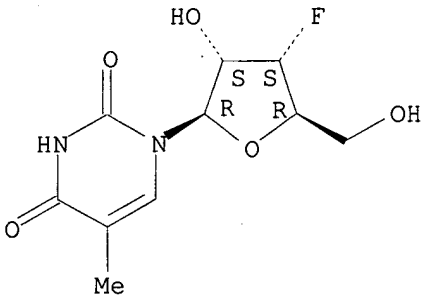
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-deoxy-3-fluoro-.beta.-D-xylofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



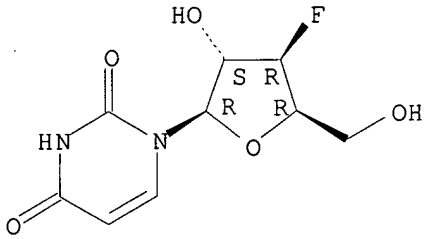
RN 125217-37-0 USPATFULL
CN Uridine, 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 129885-95-6 USPATFULL
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-D-xylofuranosyl)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L5 ANSWER 8 OF 8 USPATFULL

ACCESSION NUMBER: 2002:32541 USPATFULL
TITLE: Method for the treatment or prevention of flavivirus infections using nucleoside analogues
INVENTOR(S): Ismaili, Hicham Moulay Alaoui, Montreal, CANADA
Cheng, Yun-Xing, Dollard-des-Ormeaux, CANADA
Lavallee, Jean-Francois, Bellefeuille, CANADA
Siddiqui, Arshad, Dollard-des-Ormeaux, CANADA
Storer, Richard, Baie d'Urfe, CANADA

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002019363	A1	20020214	
APPLICATION INFO.:	US 2001-785235	A1	20010220	(9)

	NUMBER	DATE

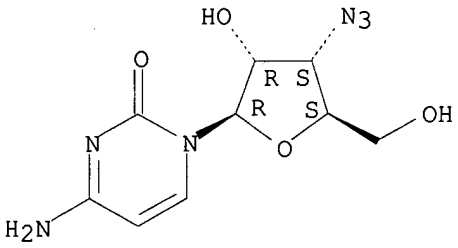
PRIORITY INFORMATION: US 2000-183349P 20000218 (60)
DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: MILLEN, WHITE, ZELANO & BRANIGAN, PC, 2200 CLARENDON BLVD, SUITE 1400, ARLINGTON, VA, 22201
NUMBER OF CLAIMS: 18
EXEMPLARY CLAIM: 1
LINE COUNT: 1165
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a method for the treatment or prevention of Flavivirus infections using nucleoside analogues in a host comprising administering a therapeutically effective amount of a compound having the formula I or a pharmaceutically acceptable salt thereof.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **70580-87-9 85708-20-9 123402-20-0**
123402-25-5
(method for treatment or prevention of flavivirus infections using nucleoside analogs and their combination with other agents in relation to hepatitis C virus RNA-dependent RNA polymerase (NS5B protein))

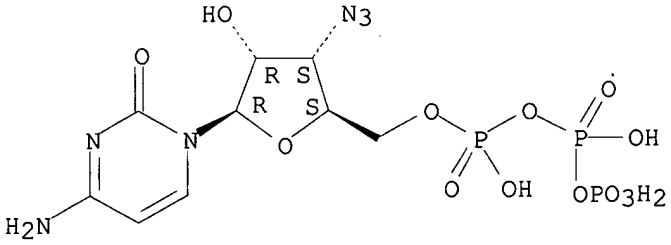
RN 70580-87-9 USPATFULL
CN Cytidine, 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



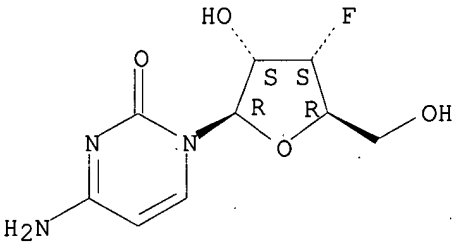
RN 85708-20-9 USPATFULL
CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



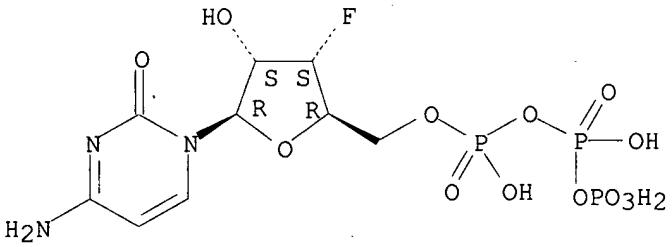
RN 123402-20-0 USPATFULL
CN Cytidine, 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 123402-25-5 USPATFULL
CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



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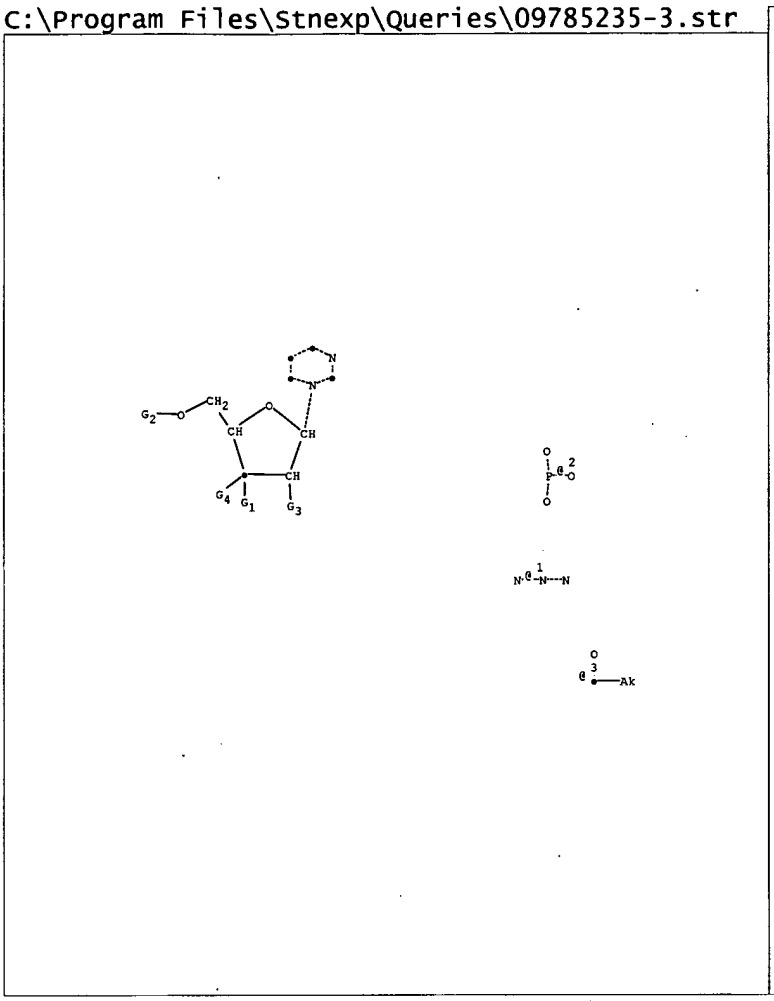
FILE 'REGISTRY' ENTERED AT 12:48:27 ON 29 JUN 2003
L1 STRUCTURE UPLOADED
L2 70 S L1 SSS FULL

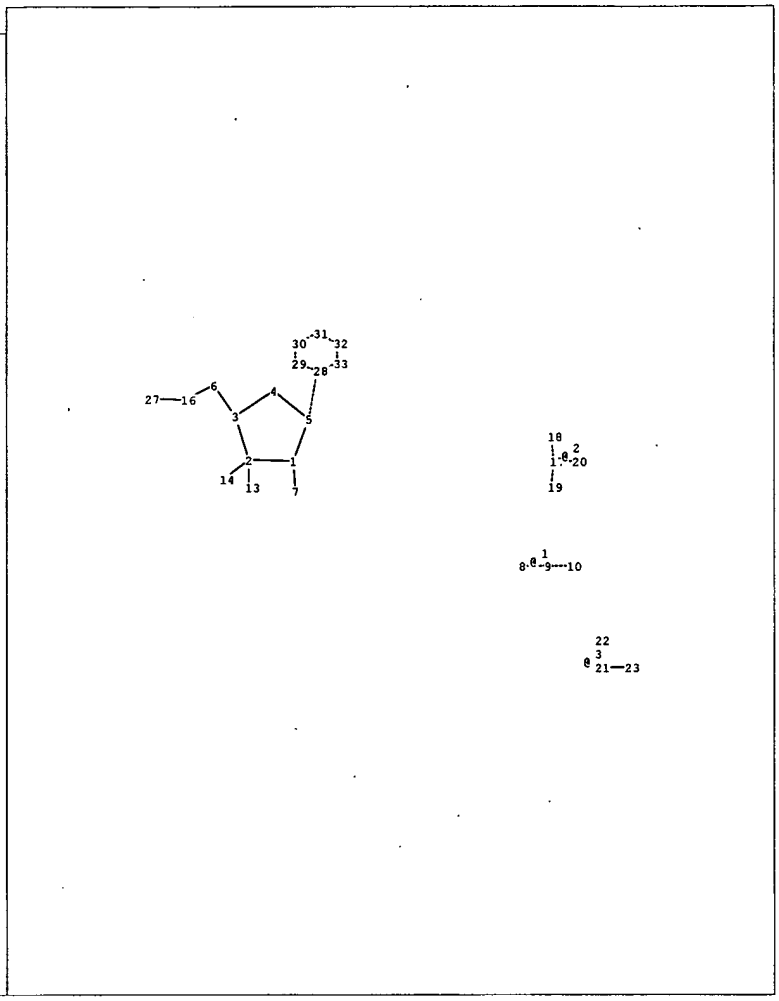
FILE 'CAPLUS, MEDLINE, USPATFULL' ENTERED AT 12:49:35 ON 29 JUN 2003
L3 86 S L2

FILE 'CAPLUS, MEDLINE, USPATFULL, AGRICOLA, ALUMINIUM, ANABSTR, APOLLIT, AQUIRE, BABS, BIOCOMMERCE, BIOTECHNO, CABA, CAOLD, CBNB, CEABA-VTB, CEN, CERAB, CIN, COMPENDEX, CONFSCI, COPPERLIT, CORROSION, ENCOMPLIT2, FEDRIP, GENBANK, INSPEC, INSPHYS, INVESTEXT, ...' ENTERED AT 12:50:16 ON 29 JUN 2003

FILE 'CAPLUS, MEDLINE, USPATFULL' ENTERED AT 12:51:09 ON 29 JUN 2003
L4 86 S L3
L5 8 S L3 AND (HCV OR HEPATITIS C)
L6 19 S L4 AND ANTIVIRAL

C:\Program Files\Stnexp\Queries\09785235-3.str





chain nodes :
6 7 8 9 10 13 14 16 17 18 19 20 21 22 23 27
ring nodes :
1 2 3 4 5 28 29 30 31 32 33
chain bonds :
1-7 2-13 2-14 3-6 5-28 6-16 8-9 9-10 16-27 17-18 17-19 17-20 21-22 21-23
ring bonds :
1-2 1-5 2-3 3-4 4-5 28-33 28-29 29-30 30-31 31-32 32-33
exact/norm bonds :
1-2 1-5 1-7 2-3 2-13 2-14 3-4 4-5 5-28 8-9 9-10 16-27 17-18 17-19 17-20
21-22 21-23 28-33 28-29 29-30 30-31 31-32 32-33
exact bonds :
3-6 6-16

G1:F,[*1]

G2:H,[*2],[*3]

G3:OH,MeO,EtO,n-PrO,i-PrO,n-BuO,i-BuO,s-BuO,t-BuO,PhO

G4:G1,H

Match level :
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 13:CLASS
14:CLASS 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom 23:Atom
27:CLASS 28:Atom 29:Atom 30:Atom 31:Atom 32:Atom 33:Atom
Generic attributes :
23:
Number of Carbon Atoms : less than 7

L6 ANSWER 1 OF 19 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:695725 CAPLUS
DOCUMENT NUMBER: 137:210908
TITLE: Nucleotides, preparation thereof, and use as inhibitors of RNA viral polymerases
INVENTOR(S): Montgomery, John A.; Babu, Yarlagadda S.; Rowland, R. Scott; Chand, Pooran
PATENT ASSIGNEE(S): Biocryst Pharmaceuticals, Inc., USA
SOURCE: PCT Int. Appl., 24 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

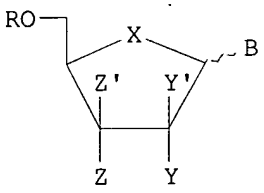
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002069903	A2	20020912	WO 2002-US6551	20020306
WO 2002069903	A3	20030227		

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: US 2001-273342P P 20010306
US 2001-285698P P 20010424
US 2001-331323P P 20011114

OTHER SOURCE(S): MARPAT 137:210908
GI



I

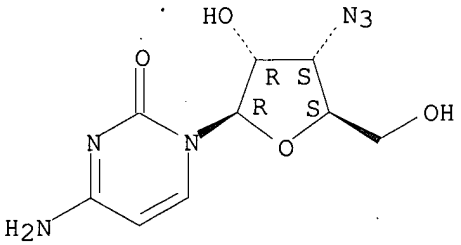
AB **Antiviral** nucleotides I were prepd. as inhibitors of RNA viral polymerases (no data), wherein X is selected from the group consisting of: O, S, N-R1, and CHR1; Y and Y' is individually selected from H, OR1, NR1R2, and N3; Z and Z' is individually selected from H, OR1, and NR1R2; R = H, monophosphate PO3R32, diphosphate P2O6R33, triphosphate P3O9R34; R1 and R2 is selected from H, alkyl, acyl, aryl which may be substituted or unsubstituted; R3 is selected from H, alkyl, alkenyl, alkynyl, aryl, acyloxyalkyl, and pivaloyloxyalkyl; B is selected from 5 or 6-substituted uracil or cytosine, pseudouracil, N-substituted pseudouracil, 2-thiouracil, 2-thiocytosine, 5- or 6-substituted 2-thiouracil and 2-thiocytosine, 6-azauracil, 5-azacytosine, 8-azapurines, and 7-aza-8-deazapurines. Substitutions may be halo-substituted alkyl, halo-substituted alkenyl, halo-substituted alkynyl, halo-substituted aryl, alkylthio, or NR1R2. When Z and Z' are H and Y or Y' is OH then B is not 5-Me uracil or cytosine; and pharmaceutically acceptable salts thereof, mono, di or triphosphate and prodrugs thereof. Thus, 1-(3'-deoxy-.beta.-D-ribofuranosyl)-2-thiocytosine was prepd. as inhibitors of RNA viral polymerases (no data).

IT **70580-87-9P 70580-88-0P**

RL: BSU (Biological study, unclassified); PNU (Preparation, unclassified); BIOL (Biological study); PREP (Preparation)
(Nucleotides, prepn. thereof, and use as inhibitors of RNA viral polymerases)

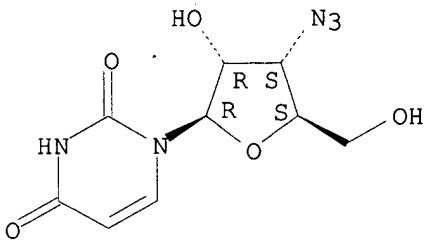
RN 70580-87-9 CAPLUS
CN Cytidine, 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 70580-88-0 CAPLUS
CN Uridine, 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 2 OF 19 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER:	2002:555629 CAPLUS
DOCUMENT NUMBER:	137:125359
TITLE:	Preparation of nucleoside derivatives as inhibitors of RNA-dependent RNA viral polymerase
INVENTOR(S):	Carroll, Steven S.; Lafemina, Robert L.; Hall, Dawn L.; Himmelberger, Amy L.; Kuo, Lawrence C.; Maccoss, Malcolm; Olsen, David B.; Rutkowski, Carrie A.; Tomassini, Joanne E.; An, Haoyun; Bhat, Balkrishen; Bhat, Neelima; Cook, Phillip Dan; Eldrup, Anne B.; Guinosso, Charles J.; Prhavc, Marija; Prakash, Thazha P.
PATENT ASSIGNEE(S):	Merck & Co., Inc., USA; Isis Pharmaceuticals, Inc.
SOURCE:	PCT Int. Appl., 235 pp. CODEN: PIXXD2
DOCUMENT TYPE:	Patent
LANGUAGE:	English
FAMILY ACC. NUM. COUNT:	2
PATENT INFORMATION:	

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002057425	A2	20020725	WO 2002-US1531	20020118

W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL,

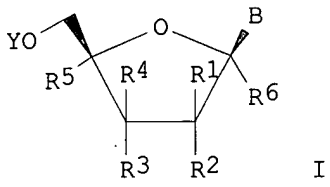
PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,
UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH,
CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR,
BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

US 2002147160 A1 20021010 US 2002-52318 20020118

PRIORITY APPLN. INFO.: US 2001-263313P P 20010122
US 2001-282069P P 20010406
US 2001-299320P P 20010619
US 2001-344528P P 20011025

OTHER SOURCE(S): MARPAT 137:125359

GI



I

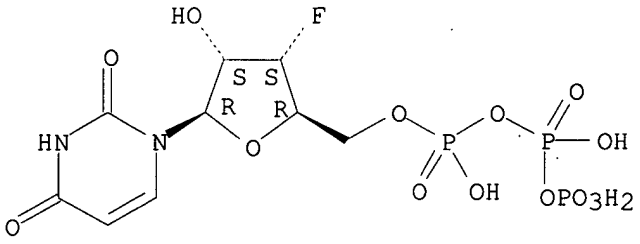
AB The present invention provides the prepn. of nucleoside compds. I, wherein B is nucleobase, Y is H, alkylcarbonyl, phosphate; R1 is H, alkenyl, alkynyl, alkyl; R2 and R3 are independently H, OH, halogen, alkyl, alkoxy, alkenyloxy, alkylthio, alkylcarbonyloxy, aryloxycrbonyl, azido, amino, alkylamino; R1 and R2 together with the carbon atom to which they are attached form a 3- to 6-membered heterocycle; R4 is H, OH, SH, NH2, alkylamino, cycloalkylamino, halogen, alkyl, alkoxy, CF3; R5 and R6 are independently H, hydroxymethyl, Me, fluoromethyl; and certain derivs. thereof which are inhibitors of RNA-dependent RNA viral polymerase. These compds. are inhibitors of RNA-dependent RNA viral replication and are useful for the treatment of RNA-dependent RNA viral infection. They are particularly useful as inhibitors of hepatitis C virus (HCV) NS5B polymerase, as inhibitors of HCV replication, and/or for the treatment of hepatitis C infection. The invention also describes pharmaceutical compns. contg. such nucleoside compds. alone or in combination with other agents active against RNA-dependent RNA viral infection, in particular HCV infection. Also disclosed are methods of inhibiting RNA-dependent RNA polymerase, inhibiting RNA-dependent RNA viral replication, and/or treating RNA-dependent RNA viral infection with the nucleoside compds. of the present invention. Thus, 4-amino-1-(2-C-methyl-.beta.-D-ribofuranosyl)-1H-pyrazolo[3,4-d]pyrimidine was prepd. as inhibitors of RNA-dependent RNA viral polymerase. Representative compds. tested in the HCV NS5B polymerase assay exhibited IC's less than 100 .mu.M. The compds. of the present invention were also evaluated for their ability to affect the replication of Hepatitis C Virus RNA in cultured hepatoma (HuH-7) cells contg. a sub-genomic HCV Replicon.

IT **123402-24-4P 123402-25-5P**
RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of nucleoside derivs. as inhibitors of RNA-dependent human RNA viral polymerase)

RN 123402-24-4 CAPLUS

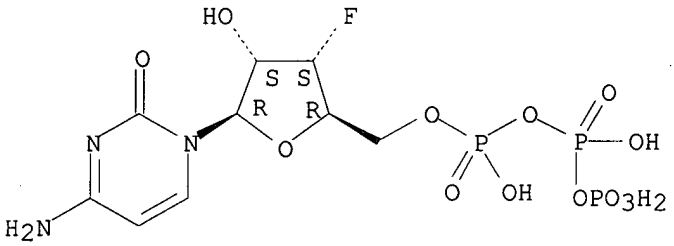
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 123402-25-5 CAPLUS
CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 3 OF 19 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:504634 CAPLUS
DOCUMENT NUMBER: 137:57536
TITLE: Remedies for hepatitis C
INVENTOR(S): Morioka, Masahiko; Ubasawa, Masaru; Arai, Masaaki
PATENT ASSIGNEE(S): Mitsubishi Pharma Corporation, Japan
SOURCE: PCT Int. Appl., 38 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002051425	A1	20020704	WO 2001-JP11365	20011225

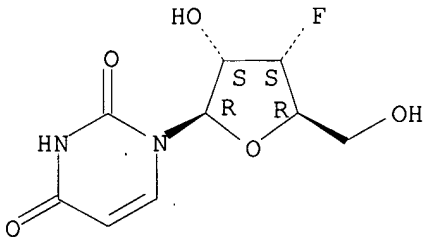
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG

PRIORITY APPLN. INFO.: JP 2000-394620 A 20001226
JP 2001-23542 A 20010131
JP 2001-105585 A 20010404
OTHER SOURCE(S): MARPAT 137:57536
AB Excellent remedies for hepatitis C which contain as the active ingredients a 3'-deoxy-3'-fluorouridine deriv. and a 1-(3'-deoxy-3'-fluoro-.beta.-L-ribofuranosyl)uracil deriv. and show little side effects.
IT **57944-13-5DP**, 3'-Deoxy-3'-fluorouridine, derivs.
112668-56-1P 123402-24-4P 125217-37-0P

439579-20-1P 439579-21-2P 439579-22-3P
439579-24-5P 439579-25-6P 439579-26-7P
439579-28-9P 439579-32-5P 439579-34-7P
439579-36-9P 439579-37-0P 439579-38-1P
439579-40-5P 439579-41-6P 439579-42-7P
439579-43-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(deoxy-3'-fluorouridine deriv. and a 1-(3'-deoxy-3'-fluoro--L-ribofuranosyl)uracil deriv. as remedies for hepatitis C)

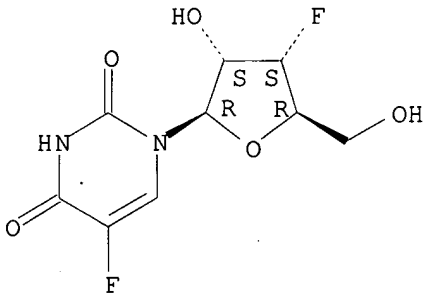
RN 57944-13-5 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



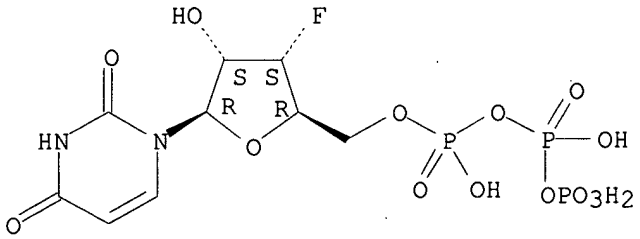
RN 112668-56-1 CAPLUS
CN Uridine, 3'-deoxy-3',5-difluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



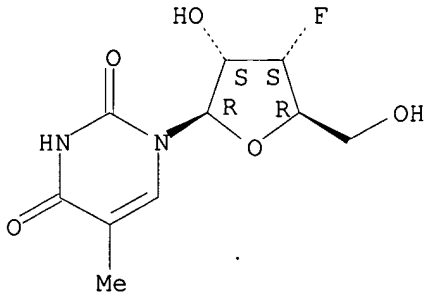
RN 123402-24-4 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



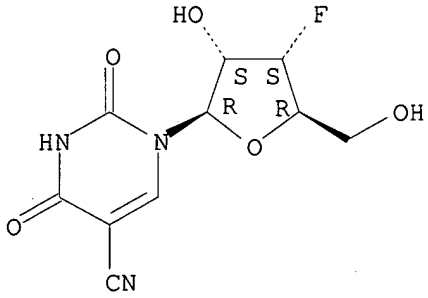
RN 125217-37-0 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



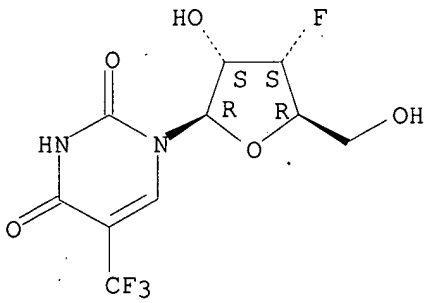
RN 439579-20-1 CAPLUS
CN Uridine, 5-cyano-3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



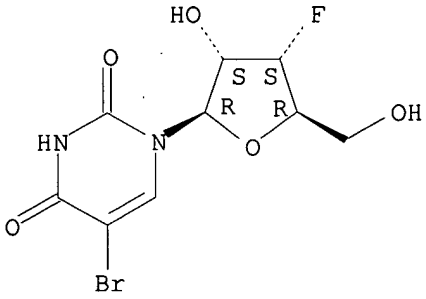
RN 439579-21-2 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



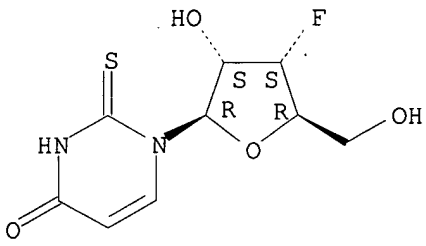
RN 439579-22-3 CAPLUS
CN Uridine, 5-bromo-3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



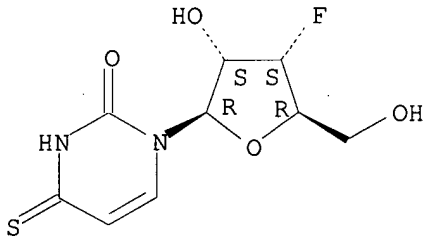
RN 439579-24-5 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro-2-thio- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



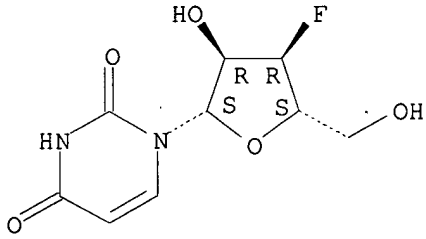
RN 439579-25-6 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro-4-thio- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 439579-26-7 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-L-ribofuranosyl)-
(9CI) (CA INDEX NAME)

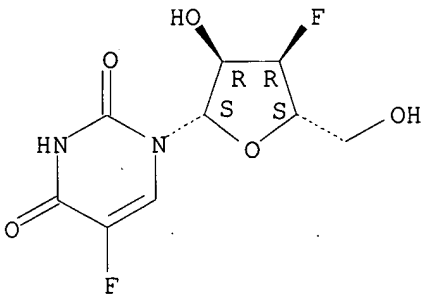
Absolute stereochemistry.



RN 439579-28-9 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-L-ribofuranosyl)-5-

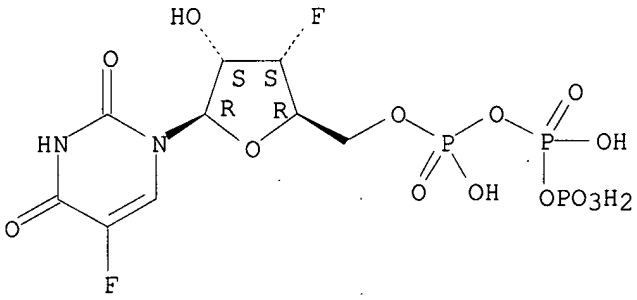
fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



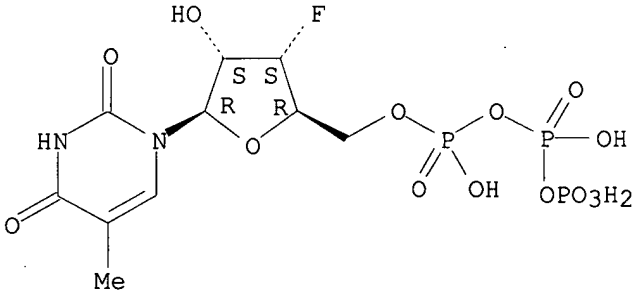
RN 439579-32-5 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3',5-difluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



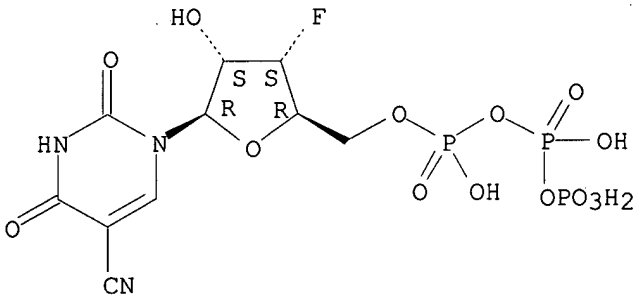
RN 439579-34-7 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



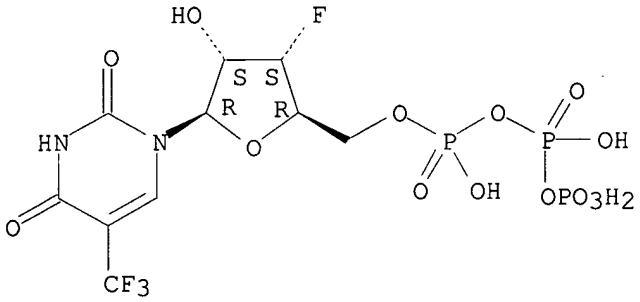
RN 439579-36-9 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 5-cyano-3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



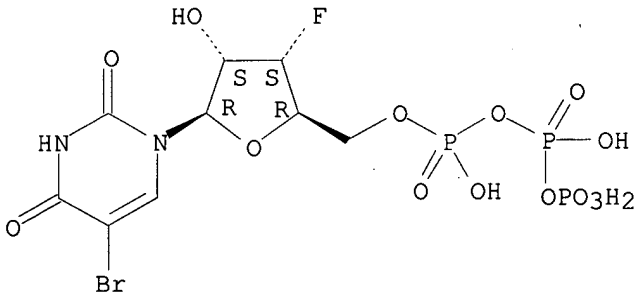
RN 439579-37-0 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro-5-(trifluoromethyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



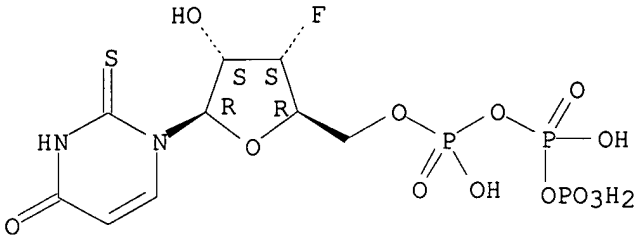
RN 439579-38-1 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 5-bromo-3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



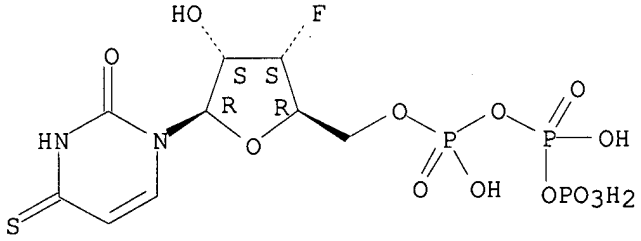
RN 439579-40-5 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro-2-thio- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



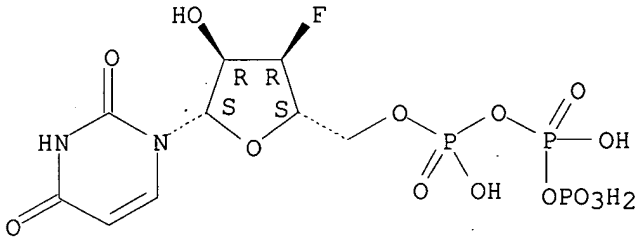
RN 439579-41-6 CAPLUS
CN Uridine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro-4-thio- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



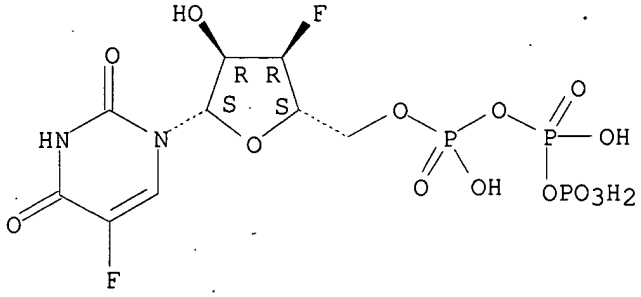
RN 439579-42-7 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-deoxy-3-fluoro-5-O-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-.beta.-L-ribofuranosyl]- (9CI) (CA INDEX NAME)

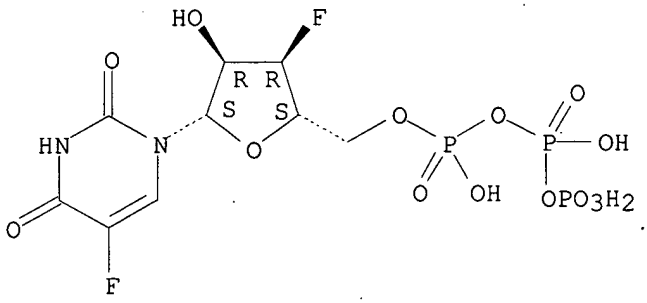
Absolute stereochemistry.



RN 439579-43-8 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-deoxy-3-fluoro-5-O-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-.beta.-L-ribofuranosyl]-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.





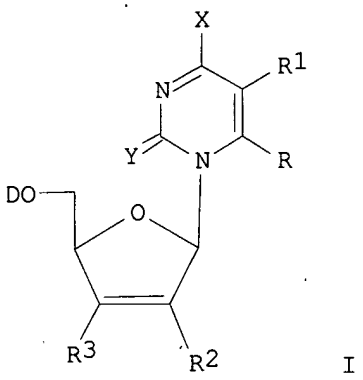
REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 4 OF 19 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:314958 CAPLUS
DOCUMENT NUMBER: 136:340939
TITLE: Preparation of modified nucleosides for treatment of viral infections and abnormal cellular proliferation
INVENTOR(S): Stuyver, Lieven; Watanabe, Kyoichi A.
PATENT ASSIGNEE(S): Pharmasset Limited, USA
SOURCE: PCT Int. Appl., 230 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002032920	A2	20020425	WO 2001-US46113	20011018
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002028749	A5	20020429	AU 2002-28749	20011018
US 2003087873	A1	20030508	US 2001-45292	20011018

PRIORITY APPLN. INFO.:			
US 2000-241488P	P	20001018	
US 2001-282156P	P	20010406	
WO 2001-US46113	W	20011018	

GI



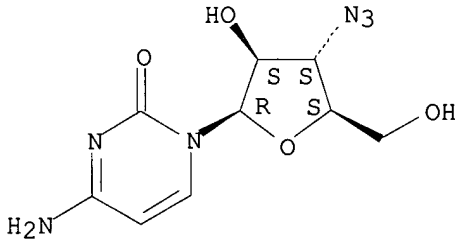
I

AB Modified nucleosides, e.g. I, wherein D is hydrogen, alkyl, acyl, monophosphate, diphosphate, triphosphate, monophosphate ester, diphosphate ester, triphosphate ester, phospholipid or amino acid; X is H, halogen, NH2, substituted amine, oxime, OH, alkoxy, SH, thioalkyl; Y is O, S, Se; R and R1 are independently H, alkyl, alkenyl, alkynyl, aryl, alkylaryl, halogen, NH2, substituted amine, oxime, hydrazine, OH, alkoxy, SH, thioalkyl, NO2, NO, CH2OH, CH2OH, ester, CONH2, amide, CN; R2 and R3 are independently H, halogen, OH, SH, OMe, SMe, NH2, NHMe, CH:CH2, CN, CH2NH2, CH2OH, CO2H; were prepd. for treating a Flaviviridae (including BVDV and HCV), Orthomyxoviridae (including Influenza A and B) or Paramyxoviridae (including RSV) infection, or conditions related to abnormal cellular proliferation, in a host, including animals, and esp. humans. This invention also provides an effective process to quantify the viral load, and in particular BVDV, HCV or West Nile Virus load, in a host, using real-time polymerase chain reaction ("TR-PCR"). Addnl., the invention discloses probe mols. that can fluoresce proportionally to the amt. of virus present in a sample. Thus, (1'R,2'S,3'R,4'R)-1-[2,3-dihydroxy-4-(hydroxymethyl)cyclopentan-1-yl]-5-fluorocytosine was prepd. and tested in vitro as **antiviral** and antitumor agent.

IT **60786-48-3P 415704-55-1P**
RL: IMF (Industrial manufacture); PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of modified nucleosides for treatment of viral infections and abnormal cellular proliferation)

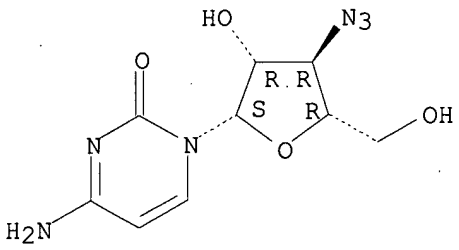
RN 60786-48-3 CAPLUS
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-azido-3-deoxy-.beta.-D-arabinofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 415704-55-1 CAPLUS
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-azido-3-deoxy-.beta.-L-arabinofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

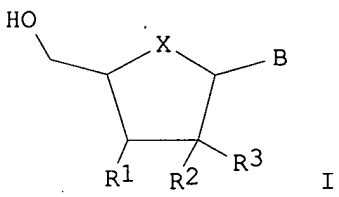


L6 ANSWER 5 OF 19 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2002:171918 CAPLUS
DOCUMENT NUMBER: 136:217007
TITLE: Preparation of **antiviral** nucleoside derivatives as inhibitors of subgenomic hepatitis C virus RNA replication
INVENTOR(S): Devos, Rene; Dymock, Brian William; Hobbs, Christopher John; Jiang, Wen-rong; Martin, Joseph Armstrong; Merrett, John Herbert; Najera, Isabel; Shimma, Nobuo; Tsukuda, Takuo
PATENT ASSIGNEE(S): F. Hoffmann-La Roche Ag, Switz.
SOURCE: PCT Int. Appl., 225 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

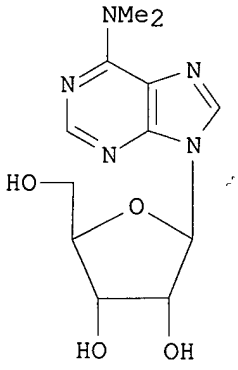
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002018404	A2	20020307	WO 2001-EP9633	20010821
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
US 2003008841	A1	20030109	US 2001-923620	20010807
AU 2001095497	A5	20020313	AU 2001-95497	20010821
EP 1315736	A2	20030604	EP 2001-976128	20010821
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				

PRIORITY APPLN. INFO.:
GB 2000-21285 A 20000830
GB 2000-26611 A 20001031
WO 2001-EP9633 W 20010821

OTHER SOURCE(S): MARPAT 136:217007
GI



I



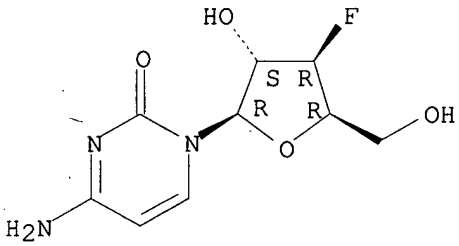
II

AB Nucleosides I , wherein R1 is hydrogen, hydroxy, alkyl, hydroxyalkyl, alkoxy, halogen, cyano, isocyano or azido; R2 is hydrogen, hydroxy, alkoxy, chlorine, bromine or iodine; R3 is hydrogen; or R2 and R3 together represent =CH2; or R2 and R3 represent fluorine; X is O, S or CH2; B is a substituted purine base, were prepd. as inhibitors of subgenomic hepatitis C virus (HCV) RNA replication. Thus, nucleoside II was prepd. and tested for the inhibition of HCV RNA replication (EC50 = 0.6 .mu.M).

IT **26563-01-9P 125217-37-0P 129885-95-6P**
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of **antiviral** nucleoside derivs. as inhibitors of subgenomic hepatitis C virus RNA replication)

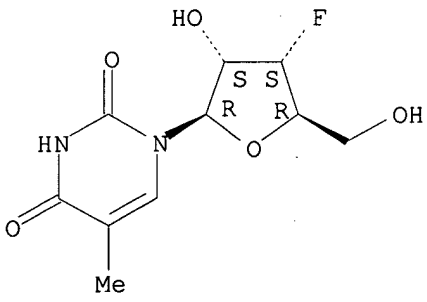
RN 26563-01-9 CAPLUS
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-deoxy-3-fluoro-.beta.-D-xylofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



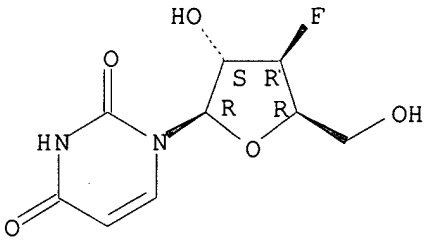
RN 125217-37-0 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 129885-95-6 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-D-xylofuranosyl)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 6 OF 19 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 2001:617773 CAPLUS
DOCUMENT NUMBER: 135:175346
TITLE: Method for the treatment or prevention of flavivirus infections using nucleoside analogues
INVENTOR(S): Ismaili, Hicham Moulay Alaoui; Cheng, Yun-Xing; Lavallee, Jean-Francois; Siddiqui, Arshad; Storer, Richard
PATENT ASSIGNEE(S): Biochem Pharma Inc., Can.
SOURCE: PCT Int. Appl., 51 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2001060315	A2	20010823	WO 2001-CA197	20010219
WO 2001060315	A3	20030116		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				
AU 2001035278	A5	20010827	AU 2001-35278	20010219
EP 1296690	A2	20030402	EP 2001-907276	20010219
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2002019363	A1	20020214	US 2001-785235	20010220
NO 2002003884	A	20021017	NO 2002-3884	20020816

PRIORITY APPLN. INFO.: US 2000-183349P P 20000218
WO 2001-CA197 W 20010219

OTHER SOURCE(S): MARPAT 135:175346

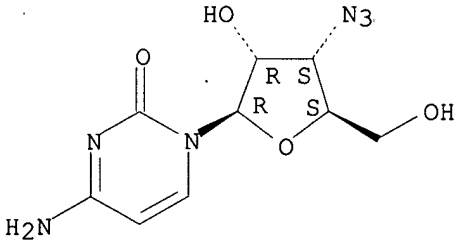
AB The present invention relates to a method for the treatment or prevention of Flavivirus infections using nucleoside analogs in a host comprising administering a therapeutically effective amt. of the nucleoside analog or a pharmaceutically acceptable salt thereof.

IT **70580-87-9 85708-20-9 123402-20-0**
123402-25-5
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(Uses)
(method for treatment or prevention of flavivirus infections using nucleoside analogs and their combination with other agents in relation to hepatitis C virus RNA-dependent RNA polymerase (NS5B protein))

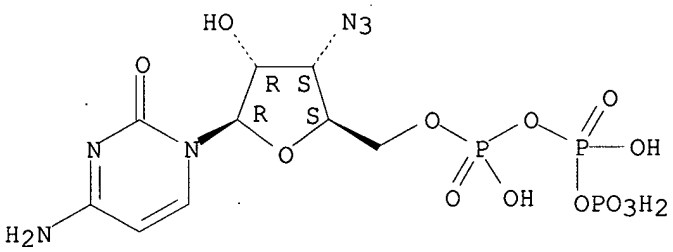
RN 70580-87-9 CAPLUS
CN Cytidine, 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



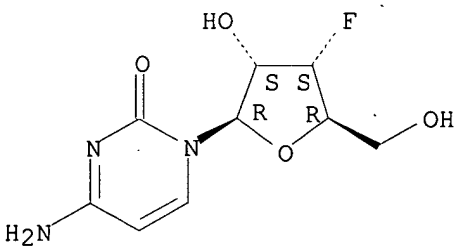
RN 85708-20-9 CAPLUS
CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



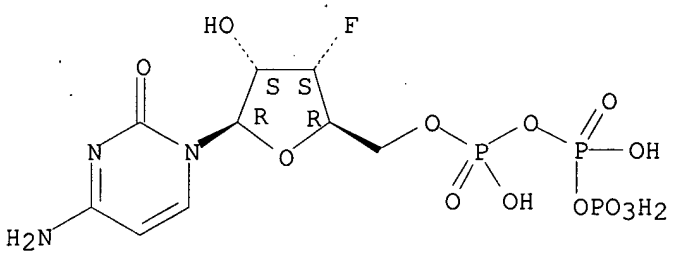
RN 123402-20-0 CAPLUS
CN Cytidine, 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 123402-25-5 CAPLUS
CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



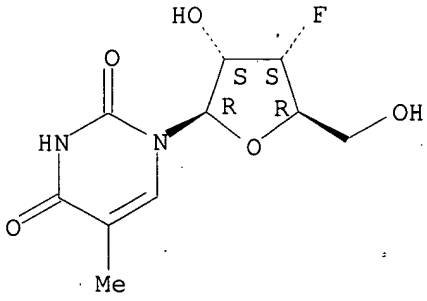
L6 ANSWER 7 OF 19 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1999:594332 CAPLUS
DOCUMENT NUMBER: 131:317318
TITLE: QSAR studies of **antiviral** agents using molecular similarity analysis and structure-activity maps
AUTHOR(S): Parakulam, R. R.; Lesniewski, M. L.; Taylor-McCabe, K. J.; Tsai, C.
CORPORATE SOURCE: Department of Chemistry, Kent State University, Kent, OH, 44242-0001, USA
SOURCE: SAR and QSAR in Environmental Research (1999), 10(2-3), 175-206
CODEN: SQERED; ISSN: 1062-936X
PUBLISHER: Gordon & Breach Science Publishers
DOCUMENT TYPE: Journal
LANGUAGE: English

AB Quant. structure-activity relationships (QSAR) were developed for nucleoside analogs with anti-HIV activity. These compds. were investigated to det. the correlation of structure and toxicity/activity using mol. similarity anal. and structure-activity maps. A multiple-formula approach was used to perform quant. mol. similarity anal. (QMSA) and QSAR study. Mol. descriptors such as no. of atoms and bonds of a mol. (NAB), max. common substructure (MaCS), and mol. similarity index (MSI) were used in the authors structure-activity relation study. The MaCS of two mols. is defined as the substructure with the greatest NAB value common to both mols. The MSI of two mols. X and Y is defined as MSI(X,Y) = [MaCS(X,Y)/NAB(X)] .times. [MaCS(X,Y)/NAB(Y)]. MaCS and MSI quantify the similarity between two mol. structures. Structure-activity maps (structure-toxicity map and structure-**antiviral** map) and QMSA were used to det. the site and type of modification for reduced toxicity and improved activity of new compds.

IT **125217-37-0**, Uridine, 3'-deoxy-3'-fluoro-5-methyl-
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(QSAR studies of **antiviral** pyrimidine nucleoside analogs with anti-HIV activity in relation to toxicity using mol. similarity anal. and structure-activity maps)

RN 125217-37-0 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

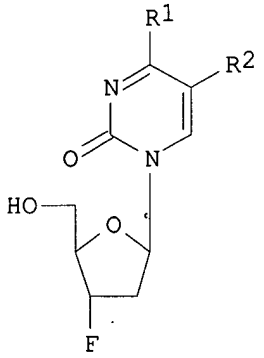


REFERENCE COUNT: 13 THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L6 ANSWER 8 OF 19 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1996:304337 CAPLUS
DOCUMENT NUMBER: 125:58994
TITLE: Preparation of 1-(3'-fluoro-2',3'-dideoxy-.beta.-D-ribofuranosyl)-5-substituted pyrimidine nucleosides as **antiviral** agents against HIV
INVENTOR(S): Johansson, Karl N. G.; Lindborg, Bjoeg; Norinder, Ulf; Stening, Goran B.
PATENT ASSIGNEE(S): Medivir Ab, Swed.
SOURCE: U.S., 22 pp., Cont.-in-part of U.S. Ser. No. 802,706, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 5506215	A	19960409	US 1994-354769	19941212
PRIORITY APPLN. INFO.:			SE 1987-4298	19871103
			US 1988-266402	19881102
			US 1990-518495	19900503
			US 1991-802706	19911206

OTHER SOURCE(S): MARPAT 125:58994
GI



I

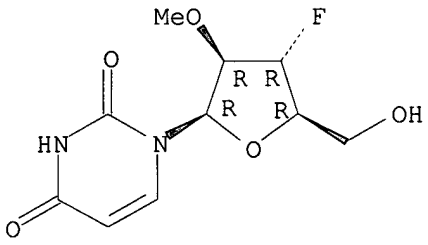
AB The title 2',3'-deoxy-3'-fluoro-pyrimidine nucleosides (I; R1 = OH or NH2; R2 = CF3, n-Pr, cyclopropyl, CH2OMe, CH2SMe, CH:CH2, CH:CHMe, C.tplbond.CH, C.tplbond.CMe, CH2C.tplbond.CH) or pharmaceutically acceptable salts thereof are prepd. Thus, 1-(3'-deoxy-3'-fluoro-.beta.-D-

arabinofuranosyl)thymine (prepn. given) was benzoylated by benzoyl chloride in pyridine and alkylated by monomethoxytrityl chloride in pyridine to give 1-(5'-O-monomethoxytrityl-3'-deoxy-3'-fluoro-.beta.-D-arabinofuranosyl)-3-benzoylthymine, which was methylated by MeI in the presence of silver oxide in acetone and treated with satd. NH3 in MeOH and then 80% aq. AcOH to give 1-(3'-fluoro-2'-methoxy-2',3'-dideoxy-.beta.-D-arabinofuranosyl)thymine (II). II at 10 .mu.g/mL and 5-chloro-1-(3'-fluoro-2',3'-dideoxy-.beta.-D-ribofuranosyl)uracil at 0.04 .mu.g/mL inhibited 85 and 50%, resp., HIV multiplication in H9 cell culture.

IT **178374-46-4P 178374-47-5P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of (fluorodideoxy-.beta.-D-ribofuranosyl)pyrimidine nucleosides as **antiviral** agents against HIV)

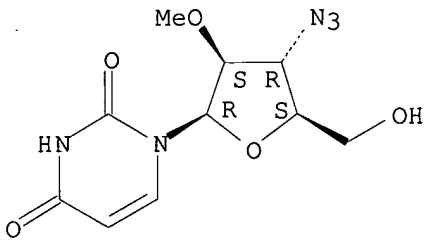
RN 178374-46-4 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-2-O-methyl-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 178374-47-5 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-azido-3-deoxy-2-O-methyl-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

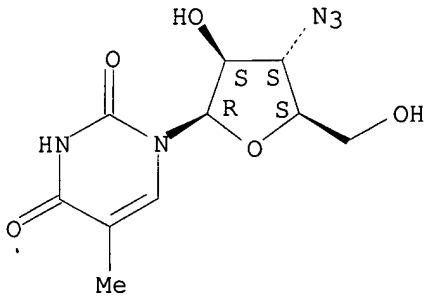
Absolute stereochemistry.



IT **99614-77-4P 124493-83-0P 178374-50-0P**
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of (fluorodideoxy-.beta.-D-ribofuranosyl)pyrimidine nucleosides as **antiviral** agents against HIV)

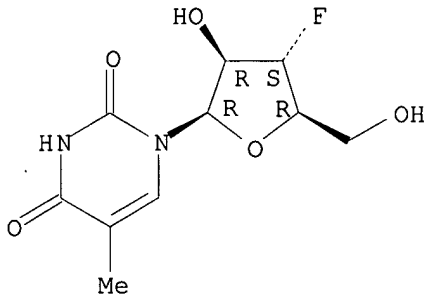
RN 99614-77-4 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-azido-3-deoxy-.beta.-D-arabinofuranosyl)-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



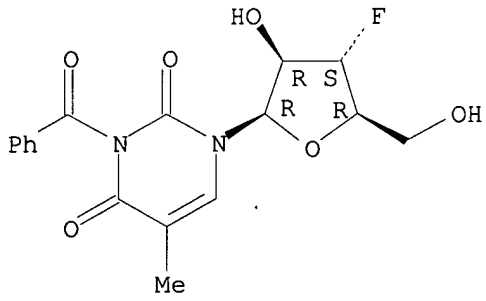
RN 124493-83-0 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 178374-50-0 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)-5-methyl- (9CI) (CA INDEX NAME)

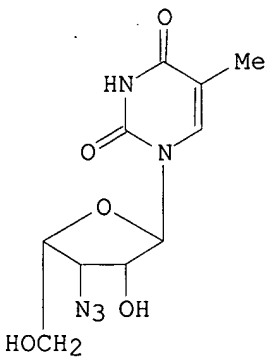
Absolute stereochemistry.



L6 ANSWER 9 OF 19 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1992:15354 CAPLUS
DOCUMENT NUMBER: 116:15354
TITLE: 3'-Substituted thymine .alpha.-L-nucleoside derivatives as potential **antiviral** agents: synthesis and biological evaluation
AUTHOR(S): Genu-Dellac, C.; Gosselin, G.; Aubertin, A. M.; Obert, G.; Kirn, A.; Imbach, J. L.
CORPORATE SOURCE: Univ. Montpellier II, Montpellier, 34095, Fr.
SOURCE: Antiviral Chemistry & Chemotherapy (1991), 2(2), 83-92
CODEN: ACCHEH; ISSN: 0956-3202
DOCUMENT TYPE: Journal

LANGUAGE: English

GI



I

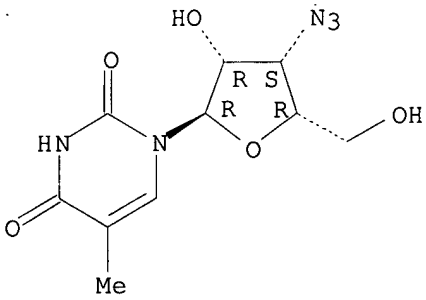
AB Hitherto unknown 1-(3-deoxy-3-substituted-.alpha.-L-lyxofuranosyl)thymines and their 2'-deoxy derivs. related to 3'-azidothymidine (AZT) and its congeners were synthesized and their **antiviral** properties examd. They were prepd. by nucleophilic substitution with inversion of configuration from 3'-O-trifluoromethanesulfonate .alpha.-L-arabinofuranonucleosides and their 2'-deoxy derivs. All the compds. (e.g., I) were tested for their activity against a variety of RNA and DNA viruses, but they did not show significant **antiviral** activity.

IT **137608-98-1P 137609-00-8P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and **antiviral** activity of, structure in relation to)

RN 137608-98-1 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-azido-3-deoxy-.alpha.-L-lyxofuranosyl)-5-methyl- (9CI) (CA INDEX NAME)

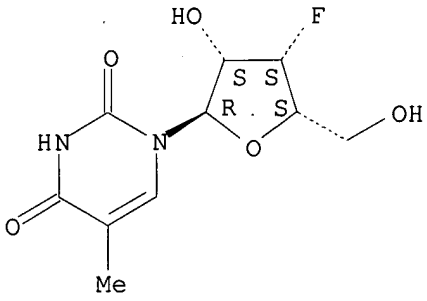
Absolute stereochemistry.



RN 137609-00-8 CAPLUS

CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.alpha.-L-lyxofuranosyl)-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



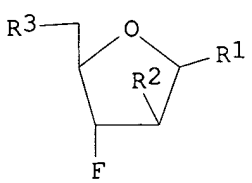
L6 ANSWER 10 OF 19 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:492834 CAPLUS
DOCUMENT NUMBER: 115:92834
TITLE: Preparation of deoxyfluoro nucleosides for treatment of AIDS and pharmaceutical compositions containing them
INVENTOR(S): Matthes, Eckart; Lehmann, Christine; Scholz, Dieter; Von Janta-Lipinski, Martin; Gaertner, Klaus; Langen, Peter; Rosenthal, Hans Alfred
PATENT ASSIGNEE(S): Akademie der Wissenschaften der DDR, Ger. Dem. Rep.
SOURCE: U.S., 9 pp. Cont.-in-part of U.S. Ser. No. 65,952, abandoned.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 4963662	A	19901016	US 1988-223677	19880715
DD 279407	A1	19900606	DD 1986-292826	19860724
DD 281346	A5	19900808	DD 1987-303489	19870603
AU 8812592	A1	19881110	AU 1988-12592	19880303
AU 615431	B2	19911003		
CA 1333390	A1	19941206	CA 1988-571404	19880707
US 5153180	A	19921006	US 1990-566486	19900813
CA 1336820	A1	19950829	CA 1994-616868	19940531

PRIORITY APPLN. INFO.:

DD 1986-292826	19860724
DD 1987-302573	19870508
DD 1987-303489	19870603
US 1987-65952	19870624
CA 1988-571404	19880707
US 1988-223677	19880715

OTHER SOURCE(S): MARPAT 115:92834
GI



I

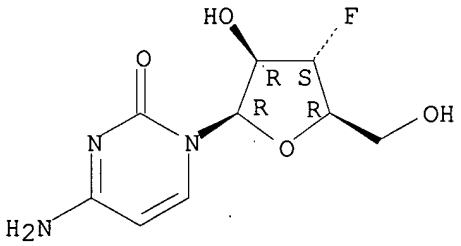
AB The title compds. [I; R1 = (substituted) adenine, cytosine, guanine, thymine, or uracil residue; R2 = H, OH; R3 = OH, acyloxy, (HO)2P(O)O] were prepd. Palmitoyl chloride was added to a soln. of 3'-deoxy-3'-

fluorothymidine in pyridine at 0.degree. and the resulting soln. warmed slowly to room temp. When the reaction was complete (by thin layer chromatog.), the mixt. was poured into ice water to give I [R1 = thymine residue, R2 = H, R3 = plamitoyloxy). 2',3'-Dideoxy-3'-fluorothymidine (II) (prepn. not given) had an ED50 of 0.003 .mu.M against HIV replication in MT-4 cells in vitro. Because of the ability of I to be phosphorylated in the infected cells I were more effective in inhibiting both HIV-1 and HIV-2 than other 3'-modified deoxy nucleosides. Uncoated and coated tablets as well as an injection soln. contg. II were formulated.

IT **56287-14-0P 124493-83-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. of, for treatment of AIDS)

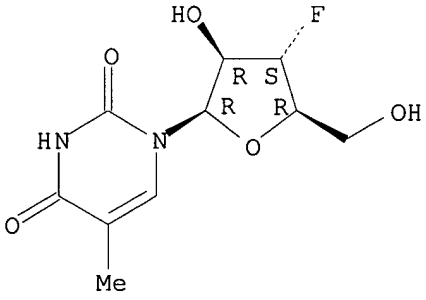
RN 56287-14-0 CAPLUS
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



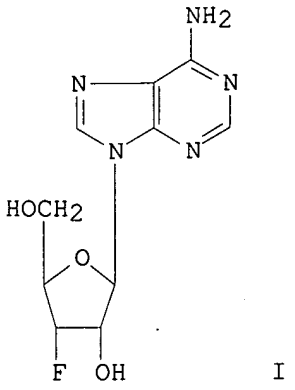
RN 124493-83-0 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 11 OF 19 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1991:450176 CAPLUS
DOCUMENT NUMBER: 115:50176
TITLE: Synthesis and **antiviral** and cytostatic properties of 3'-deoxy-3'-fluoro- and 2'-azido-3'-fluoro-2',3'-dideoxy-D-ribofuranosides of natural heterocyclic bases
AUTHOR(S): Mikhailopulo, I. A.; Poopeiko, N. E.; Prikota, T. I.; Sivets, G. G.; Kvasyuk, E. I.; Balzarini, J.; De Clercq, Erik
CORPORATE SOURCE: Inst. Bioorg. Chem., Minsk, 220600, USSR
SOURCE: Journal of Medicinal Chemistry (1991), 34(7), 2195-202
CODEN: JMCMAR; ISSN: 0022-2623
DOCUMENT TYPE: Journal
LANGUAGE: English

OTHER SOURCE(S): CASREACT 115:50176
GI



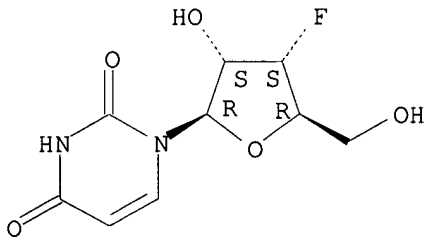
I

AB A series of 3'-deoxy-3'-fluoro- and 2'-azido-2',3'-dideoxy-3'-fluoro-D-ribofuranosides of natural heterocyclic bases were synthesized with the use of universal carbohydrate precursors, viz., 1-O-acetyl-2,5-di-O-benzoyl-3-deoxy-3-fluoro-D-ribofuranose and Me 2-azido-5-O-benzoyl-2,3-dideoxy-3-fluoro-.beta.-D-ribofuranoside, resp. The cytostatic and **antiviral** activities of the compds. were evaluated against a variety of tumor cell lines and DNA/RNA viruses, resp. As the most active compd., from both a cytostatic and **antiviral** activity viewpoint, emerged 3'-deoxy-3'-fluoroadenosine (I). It inhibited the proliferation of some tumor cell lines (i.e. murine leukemia L1210 and human T-lymphocyte MT-4) at a concn. of 0.2-2 .mu.g/mL, and proved inhibitory to the replication of pos.-stranded RNA viruses (i.e. polio, Coxsackie, Sindbis, Semliki forest), double-stranded RNA viruses (i.e. reo), and some DNA viruses (i.e. vaccinia) at a concn. of 1-4 .mu.g/mL, which is well below the cytotoxicity threshold (40 .mu.g/mL).

IT **57944-13-5P 123402-20-0P 133776-17-7P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and **antiviral** or cytostatic activity of)

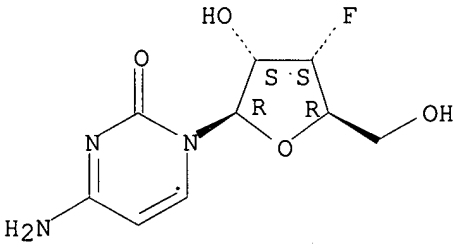
RN 57944-13-5 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



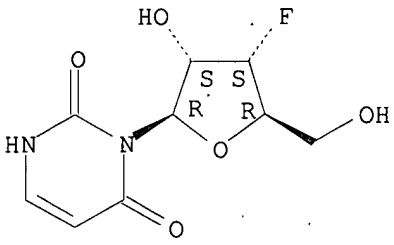
RN 123402-20-0 CAPLUS
CN Cytidine, 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

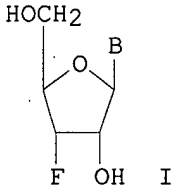


RN 133776-17-7 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 3-(3-deoxy-3-fluoro-.beta.-D-ribofuranosyl)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 12 OF 19 CAPLUS COPYRIGHT 2003 ACS
ACCESSION NUMBER: 1990:69447 CAPLUS
DOCUMENT NUMBER: 112:69447
TITLE: Synthesis and **antiviral** activity evaluation of 3'-fluoro-3'-deoxyribonucleosides: broad-spectrum **antiviral** activity of 3'-fluoro-3'-deoxyadenosine
AUTHOR(S): Van Aerschot, A.; Herdewijn, P.; Janssen, G.; Cools, M.; De Clercq, E.
CORPORATE SOURCE: Rega Inst. Med. Res., Kathol. Univ. Leuven, Louvain, B-3000, Belg.
SOURCE: Antiviral Research (1989), 12(3), 133-50
CODEN: ARSRDR; ISSN: 0166-3542
DOCUMENT TYPE: Journal
LANGUAGE: English
GI



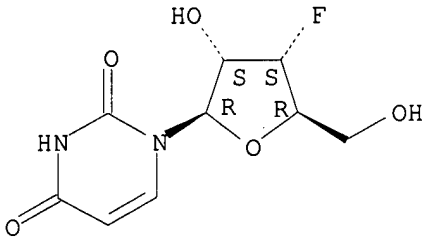
AB Five 3-fluorinated ribonucleosides (I, B = uridine, cytidine, thymine, adenine and inosine) were prepd. and evaluated for their inhibitory properties against different viruses. The compds. were prepd. by treatment of 2',5'-di-O-tritylated nucleoside and analogs possessing a xylo-configuration with diethylaminosulfur trifluoride, followed by deprotection. 3'-Fluoro-3'-deoxyadenosine (I, B = adenine) (II) was active against a broad range of viruses, encompassing both DNA viruses

[pox (vaccinia)], single-stranded (+) RNA viruses [picorna (polio, Coxsackie B), toga (sindbis, Semliki Forest)] and double-stranded RNA viruses (reo). In its **antiviral** activity spectrum, II clearly differed from those adenosine analogs that are known as inhibitors of S-adenosylhomocysteine hydrolase. II also was effective in vivo, in inhibiting tail lesion formation in mice inoculated i.v. with vaccinia virus.

IT **57944-13-5P 123402-20-0P 125217-37-0P**
RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. and virucidal activity of)

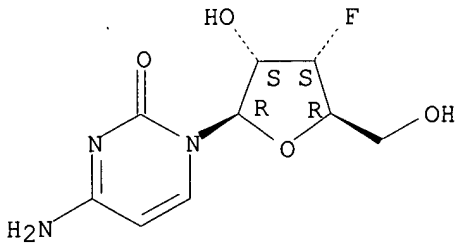
RN 57944-13-5 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



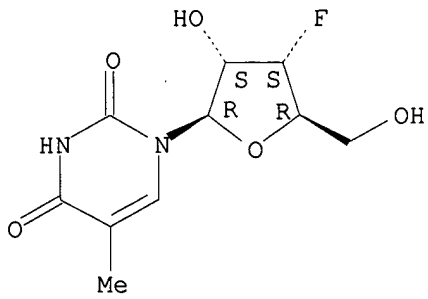
RN 123402-20-0 CAPLUS
CN Cytidine, 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 125217-37-0 CAPLUS
CN Uridine, 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



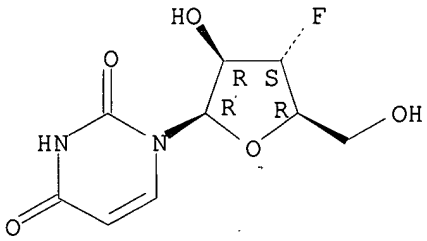
L6 ANSWER 13 OF 19 CAPLUS COPYRIGHT 2003 ACS

ACCESSION NUMBER: 1987:400316 CAPLUS
DOCUMENT NUMBER: 107:316
TITLE: A proposed mechanism for the selective inhibition of human cytomegalovirus replication by 1-(2'-deoxy-2'-fluoro-.beta.-D-arabinofuranosyl)-5-fluorouracil
AUTHOR(S): Suzuki, Satoru; Misra, Hemant K.; Wiebe, Leonard I.; Knaus, Edward E.; Lorne, D.; Tyrrell, J.
CORPORATE SOURCE: Fac. Pharm., Univ. Alberta, Edmonton, AB, T6G 2H7, Can.
SOURCE: Molecular Pharmacology (1987), 31(3), 301-6
CODEN: MOPMA3; ISSN: 0026-895X
DOCUMENT TYPE: Journal
LANGUAGE: English

AB The biol. activities of 1-(2'-deoxy-2'-fluoro-.beta.-D-arabinofuranosyl)-5-fluorouracil (2'-F-ara-FU), and 1-(3'-deoxy-3'-fluoro-.beta.-D-arabinofuranosyl)-5-fluorouracil (3'-F-ara-FU) were compared in human cytomegalovirus (HCMV)-infected and noninfected human fibroblasts. 2'-F-ara-FU inhibited HCMV plaque formation at lower concns. than 3'F-ara-FU. These nucleoside analogs are expected to be phosphorylated to their 5'-phosphate forms by cellular thymidine kinase in HCMV-infected cells. Cellular thymidine kinase was increased in the virus-infected cells and showed better phosphorylation of 2'-F-ara-FU of did 3'-F-ara-FU. HCMV DNA polymerase was purified by affinity column chromatog., and the inhibitory effect of the 5'-triphosphate derivs. of 2'-F-ara-FU (2'F-ara-FUTP) and 3'F-ara-FU (3'F-ara-FUTP) against viral and host DNA polymerase .alpha. was examd. No significant difference in the effectiveness of inhibition was obsd. between viral DNA polymerase and host polymerase .alpha.. However, viral polymerase incorporated 2'F-ara-FUTP into newly synthesized DNA, whereas polymerase .alpha. did not utilize 2'F-ara-FUTP as a substrate. Thus, viral polymerase differs from host polymerase .alpha. in its recognition and utilization of 2'F-ara-FUTP. This difference may be important to the design of selective **antiviral** agents for HCMV.

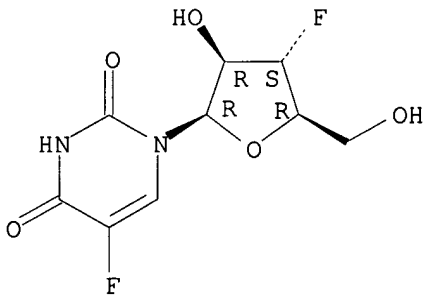
IT **19325-94-1**
RL: RCT (Reactant); RACT (Reactant or reagent)
(fluorination of)
RN 19325-94-1 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



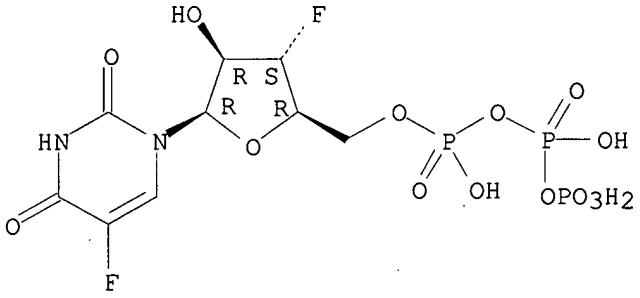
IT **108572-20-9P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and human cytomegalovirus replication inhibition by)
RN 108572-20-9 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **108572-21-0P**
RL: SPN (Synthetic preparation); PREP (Preparation)
(prepn. and viral and .alpha. DNA polymerases inhibition by)
RN 108572-21-0 CAPLUS
CN 2,4(1H,3H)-Pyrimidinedione, 1-[3-deoxy-3-fluoro-5-O-[hydroxy[[hydroxy(phosphonooxy)phosphinyl]oxy]phosphinyl]-.beta.-D-arabinofuranosyl]-5-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 14 OF 19 MEDLINE
ACCESSION NUMBER: 88013803 MEDLINE
DOCUMENT NUMBER: 88013803 PubMed ID: 2821379
TITLE: [The effect of 3'-azido-2',3'-dideoxythymidine on experimental viral infections].
Deistvie 3'-azido-2',3'-didezoksitimidina na eksperimental'nye virusnye infektsii.
AUTHOR: Shneider M A; Rudenko N K; Kavsan V M; Bibilashvili R Sh; Kraevskii A A
SOURCE: MOLEKULIARNAIA BIOLOGIIA, (1987 May-Jun) 21 (3) 837-46.
Journal code: 0105454. ISSN: 0026-8984.
PUB. COUNTRY: USSR
DOCUMENT TYPE: Journal; Article; (JOURNAL ARTICLE)
LANGUAGE: Russian
FILE SEGMENT: Priority Journals; AIDS
ENTRY MONTH: 198710
ENTRY DATE: Entered STN: 19900305
Last Updated on STN: 19970203
Entered Medline: 19871026

AB 3'-Azido-2',3'-dideoxythymidine (az-T) inhibited effectively the reproduction of some retroviruses; among these viruses were the four serological subgroups of sarcoma Raus virus in chicken embryo, avian myeloblastosis virus and erythroblastosis virus in chicken. This inhibition was specific towards retroviruses and practically was not observed in the case of infections DNA- and RNA-genome model viruses of vaccinia and influenza, at whose reproduction reverse transcriptase is not involved. Three other 3'-modified nucleosides did not block the

above-listed retroviruses. For chickens, az-T showed low toxicity. The molecular mechanisms of the action of az-T are discussed.

L6 ANSWER 15 OF 19 USPATFULL
ACCESSION NUMBER: 2003:11137 USPATFULL
TITLE: Anti-HCV nucleoside derivatives
INVENTOR(S): Devos, Rene, Welwyn Garden City, UNITED KINGDOM
Dymock, Brian William, St. Albans, UNITED KINGDOM
Hobbs, Christopher John, Hertford, UNITED KINGDOM
Jiang, Wen-Rong, Welwyn Garden City, UNITED KINGDOM
Martin, Joseph Armstrong, Harpenden, UNITED KINGDOM
Merrett, John Herbert, Baldock, UNITED KINGDOM
Najera, Isabel, St. Albans, UNITED KINGDOM
Shimma, Nobuo, Chigasaki-shi, JAPAN
Tsukuda, Takuo, Odawara-shi, JAPAN

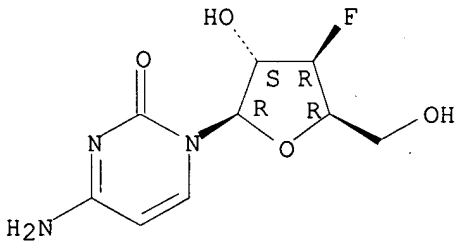
	NUMBER	KIND	DATE
PATENT INFORMATION:	US 2003008841	A1	20030109
APPLICATION INFO.:	US 2001-923620	A1	20010807 (9)

	NUMBER	DATE
PRIORITY INFORMATION:	GB 2000-21285	20000830
	GB 2000-26611	20001031

DOCUMENT TYPE: Utility
FILE SEGMENT: APPLICATION
LEGAL REPRESENTATIVE: HOFFMANN-LA ROCHE INC., PATENT LAW DEPARTMENT, 340 KINGSLAND STREET, NUTLEY, NJ, 07110
NUMBER OF CLAIMS: 49
EXEMPLARY CLAIM: 1
LINE COUNT: 4872
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB The present invention comprises novel and known purine and pyrimidine nucleoside derivatives which have been discovered to be active against hepatitis C virus (HCV). The use of these derivatives for the treatment of HCV infection is claimed as are the novel nucleoside derivatives disclosed herein.

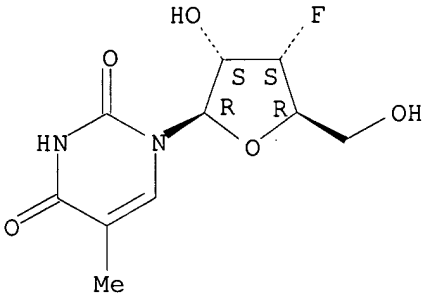
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **26563-01-9P 125217-37-0P 129885-95-6P**
(prepn. of antiviral nucleoside derivs. as inhibitors of subgenomic hepatitis C virus RNA replication)
RN 26563-01-9 USPATFULL
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-deoxy-3-fluoro-.beta.-D-xylofuranosyl)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



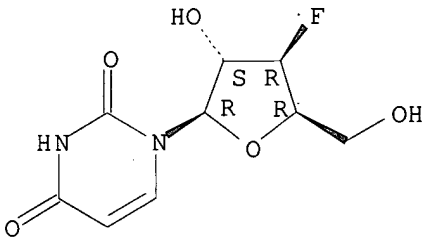
RN 125217-37-0 USPATFULL
CN Uridine, 3'-deoxy-3'-fluoro-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 129885-95-6 USPATFULL
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-D-xylofuranosyl)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 16 OF 19 USPATFULL

ACCESSION NUMBER:	2002:32541 USPATFULL
TITLE:	Method for the treatment or prevention of flavivirus infections using nucleoside analogues
INVENTOR(S):	Ismaili, Hicham Moulay Alaoui, Montreal, CANADA Cheng, Yun-Xing, Dollard-des-Ormeaux, CANADA Lavallee, Jean-Francois, Bellefeuille, CANADA Siddiqui, Arshad, Dollard-des-Ormeaux, CANADA Storer, Richard, Baie d'Urfe, CANADA

	NUMBER	KIND	DATE	
PATENT INFORMATION:	US 2002019363	A1	20020214	
APPLICATION INFO.:	US 2001-785235	A1	20010220	(9)

	NUMBER	DATE	
PRIORITY INFORMATION:	US 2000-183349P	20000218	(60)

DOCUMENT TYPE:	Utility
FILE SEGMENT:	APPLICATION
LEGAL REPRESENTATIVE:	MILLEN, WHITE, ZELANO & BRANIGAN, PC, 2200 CLARENDON BLVD, SUITE 1400, ARLINGTON, VA, 22201
NUMBER OF CLAIMS:	18
EXEMPLARY CLAIM:	1
LINE COUNT:	1165

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB The present invention relates to a method for the treatment or prevention of Flavivirus infections using nucleoside analogues in a host comprising administering a therapeutically effective amount of a compound having the formula I or a pharmaceutically acceptable salt thereof.

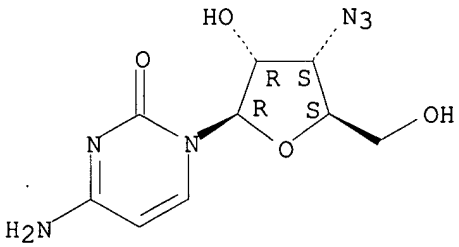
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **70580-87-9 85708-20-9 123402-20-0**
123402-25-5
(method for treatment or prevention of flavivirus infections using nucleoside analogs and their combination with other agents in relation to hepatitis C virus RNA-dependent RNA polymerase (NS5B protein))

RN 70580-87-9 USPATFULL

CN Cytidine, 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

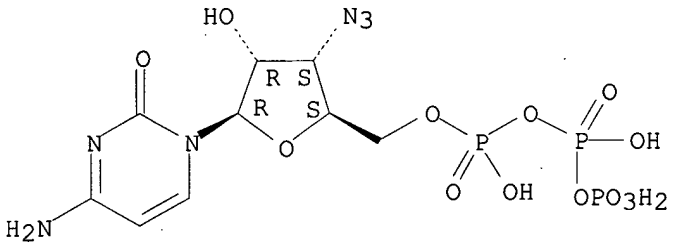
Absolute stereochemistry.



RN 85708-20-9 USPATFULL

CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-azido-3'-deoxy- (9CI) (CA INDEX NAME)

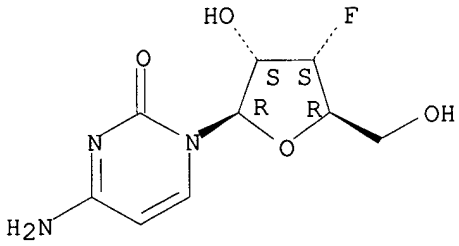
Absolute stereochemistry.



RN 123402-20-0 USPATFULL

CN Cytidine, 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

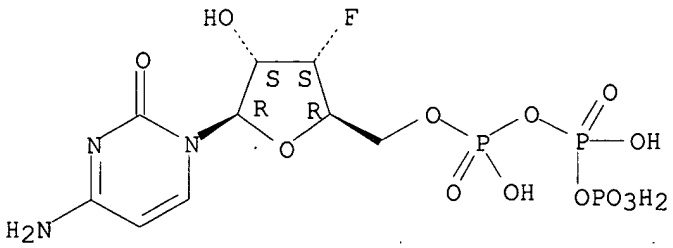
Absolute stereochemistry.



RN 123402-25-5 USPATFULL

CN Cytidine 5'-(tetrahydrogen triphosphate), 3'-deoxy-3'-fluoro- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 17 OF 19 USPATFULL

ACCESSION NUMBER:	96:29544 USPATFULL
TITLE:	1-(3'-fluoro-2',3'-dideoxy-.beta.-D-ribofuranosyl)-5-substituted pyrimidine nucleosides
INVENTOR(S):	Johansson, Karl N. G., Enhorna, Sweden Lindborg, BjoG., Avsjo, Sweden Norinder, Ulf, Sodertalje all of, Sweden Stening, Goran B., Sodertalje all of, Sweden
PATENT ASSIGNEE(S):	Medivir AB, Huddinge, Sweden (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5506215		19960409
APPLICATION INFO.:	US 1994-354769		19941212 (8)
RELATED APPLN. INFO.:	Continuation-in-part of Ser. No. US 1991-802706, filed on 6 Dec 1991, now abandoned which is a continuation of Ser. No. US 1990-518495, filed on 3 May 1990, now abandoned which is a continuation-in-part of Ser. No. US 1988-266402, filed on 2 Nov 1988, now abandoned		

	NUMBER	DATE
PRIORITY INFORMATION:	SE 1987-4298	19871103

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Kunz, Gary L.
LEGAL REPRESENTATIVE:	Birch, Stewart, Kolasch & Birch
NUMBER OF CLAIMS:	6
EXEMPLARY CLAIM:	1
LINE COUNT:	1253

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A 2',3'-deoxy-3'-fluoro-pyrimidine nucleoside having the formula: ##STR1## wherein R.sup.1 is OH or NH.sub.2 ;

R.sup.2 is CF.sub.3, CH.sub.2 CH.sub.2 CH.sub.3, ##STR2## CH.sub.2 OCH.sub.3, CH.sub.2 SCH.sub.3, CH.dbd.CH.sub.2 CH.dbd.CH--CH.sub.3, C.tbd.CH, C.tbd.C--CH.sub.3 or CH.sub.2 --C.tbd.CH;

or a pharmaceutically acceptable salt thereof.

These nucleoside analogs exhibit **antiviral** activity against HIV.

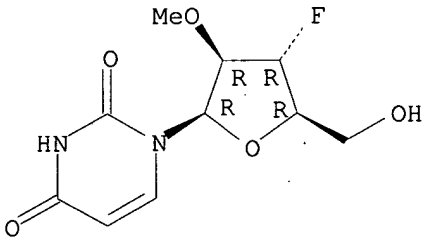
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

IT **178374-46-4P 178374-47-5P**
(prepn. of (fluorodideoxy-.beta.-D-ribofuranosyl)pyrimidine nucleosides as antiviral agents against HIV)

RN 178374-46-4 USPATFULL

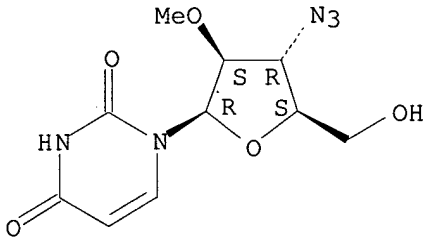
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-2-O-methyl-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



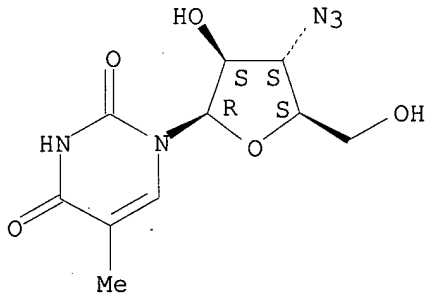
RN 178374-47-5 USPATFULL
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-azido-3-deoxy-2-O-methyl-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



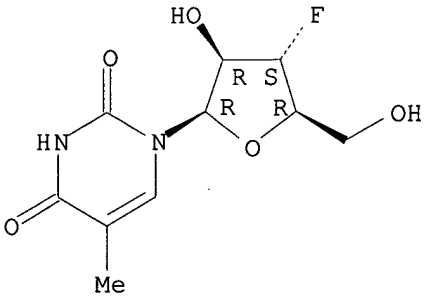
IT **99614-77-4P 124493-83-0P 178374-50-0P**
(prepn. of (fluorodideoxy-.beta.-D-ribofuranosyl)pyrimidine nucleosides as antiviral agents against HIV)
RN 99614-77-4 USPATFULL
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-azido-3-deoxy-.beta.-D-arabinofuranosyl)-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



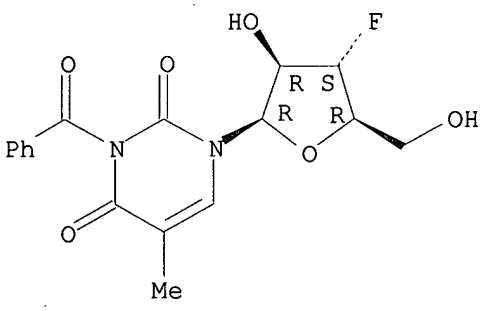
RN 124493-83-0 USPATFULL
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 178374-50-0 USPATFULL
CN 2,4(1H,3H)-Pyrimidinedione, 3-benzoyl-1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 18 OF 19 USPATFULL

ACCESSION NUMBER:	92:82761 USPATFULL
TITLE:	Fluorinated nucleosides and process for treating retrovirus infections therewith
INVENTOR(S):	Matthes, Eckart, Karower Chausee 129, 1115 Berlin, Germany, Federal Republic of Lehmann, Christine, Walter-Friedrich Str. 5, 1055 Berlin, Germany, Federal Republic of Scholz, Dieter, Heinrich-Roller Str. 16, 1055 Berlin, Germany, Federal Republic of von Janta-Lipinski, Martin, Pradelstr. 6, 1100 Berlin, Germany, Federal Republic of Gaertner, Klaus, Karower Chaussee 157, 1115 Berlin, Germany, Federal Republic of Langen, Peter, Karower Chaussee 219, 1115 Berlin, Germany, Federal Republic of Rosenthal, Hans-Alfred, Markisches Ufer 14, 1020 Berlin, Germany, Federal Republic of

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 5153180		19921006
APPLICATION INFO.:	US 1990-566486		19900813 (7)
DISCLAIMER DATE:	20071016		
RELATED APPLN. INFO.:	Continuation of Ser. No. US 1988-223677, filed on 15 Jul 1988, now patented, Pat. No. US 4963662 which is a continuation of Ser. No. US 1987-65952, filed on 24 Jun 1987, now abandoned		
DOCUMENT TYPE:	Utility		
FILE SEGMENT:	Granted		
PRIMARY EXAMINER:	Rollins, John W.		

LEGAL REPRESENTATIVE: Schweitzer Cornman & Gross
NUMBER OF CLAIMS: 6
EXEMPLARY CLAIM: 1
LINE COUNT: 805
CAS INDEXING IS AVAILABLE FOR THIS PATENT.

AB A process for treating AIDS, which comprises administering to a patient in need therefor a pharmaceutical composition comprising a therapeutically effective amount of a compound having the formula ##STR1## wherein: R.sub.1 is an adenine, cytosine, guanine, thymidine, uracil, 5-substituted uracil, 5-substituted cytosine derivative, 2-fluoroadenine, 2.6-diaminopurine, 2-aminopurine, 6-thioguanine, or 7-deazaadenine group;

R.sub.2 is H, or a OH group;

R.sub.3 is a OH, O-acyl, O-palmitoyl group or phosphates (as free acid, or its alkali, ammonium or alkyl ammonium salts), or any other precursor group for the hydroxyl group;

or a physiologically acceptable salt thereof. Furthermore, the present invention comprises the new compounds:

2',3'-dideoxy-3'-fluoro-2-fluoroadenosine,

2',3'-dideoxy-3'-fluoro-6-thioguanosine,

2',3'-dideoxy-3'-fluoro-2,6-diaminopurineriboside,

2',3'-dideoxy-3'-fluoro-2-aminopurineriboside,

2',3'-dideoxy-3'-fluoro-5-aminomethyluridine,

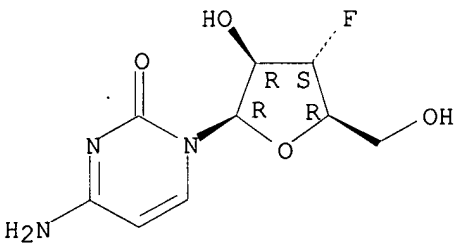
2',3'-dideoxy-3'-fluoro-5-azidomethyluridine, and

2',3'-dideoxy-3'-fluoro-5-hydroxymethyluridine.

CAS INDEXING IS AVAILABLE FOR THIS PATENT.

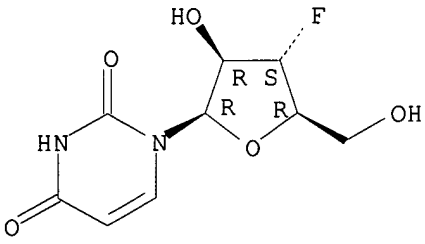
IT **56287-14-0P**
(prepn. of, for treatment of AIDS)
RN 56287-14-0 USPATFULL
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



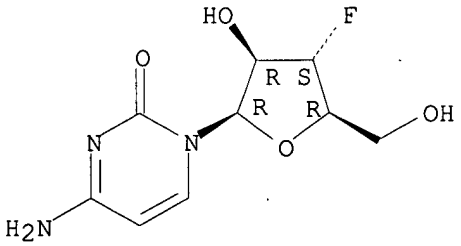
IT **19325-94-1**
(reaction of, in prepn. of drug for treatment of AIDS)
RN 19325-94-1 USPATFULL
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT **56287-14-0**
(use of, for treatment of AIDS)
RN 56287-14-0 USPATFULL
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)-
(9CI) (CA INDEX NAME)

Absolute stereochemistry.



L6 ANSWER 19 OF 19 USPATFULL

ACCESSION NUMBER:	90:79990 USPATFULL
TITLE:	Fluorinated nucleosides and method for treating retrovirus infections therewith
INVENTOR(S):	Matthes, Eckart, Berlin, German Democratic Republic Lehmann, Christine, Berlin, German Democratic Republic Scholz, Dieter, Berlin, German Democratic Republic von Janta-Lipinski, Martin, Berlin, German Democratic Republic Gaertner, Klaus, Berlin, German Democratic Republic Langen, Peter, Berlin, German Democratic Republic Rosenthal, Hans-Alfred, Berlin, German Democratic Republic
PATENT ASSIGNEE(S):	Akademie der Wissenschaften der DDR, Berlin, German Democratic Republic (non-U.S. corporation)

	NUMBER	KIND	DATE
PATENT INFORMATION:	US 4963662		19901016
APPLICATION INFO.:	US 1988-223677		19880715 (7)

RELATED APPLN. INFO.: Continuation-in-part of Ser. No. US 1987-65952, filed on 24 Jun 1987, now abandoned

	NUMBER	DATE
PRIORITY INFORMATION:	DD 1986-2928263	19860724
	DD 1987-3025732	19870508
	DD 1987-3034896	19870603

DOCUMENT TYPE:	Utility
FILE SEGMENT:	Granted
PRIMARY EXAMINER:	Rollins, John W.
LEGAL REPRESENTATIVE:	Schweitzer Cornman & Gross
NUMBER OF CLAIMS:	8

EXEMPLARY CLAIM: 1
LINE COUNT: 810
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
AB A method for treating AIDS, which comprises administering to a patient in need therefor a pharmaceutical composition comprising a therapeutically effective amount of a compound having the formula ##STR1## wherein R.sub.1 is an adenine, cytosine, guanine, thymidine, uracil, 5-substituted uracil, 5-substituted cytosine derivative, 2-fluoroadenine, 2.6-diaminopurine, 2-aminopurine, 6-thioguanine, or 7-deazaadenine group;

R.sub.2 is H, or a OH group;

R.sub.3 is a OH, O-acyl, O-palmitoyl group, or phosphates (as free acid, or its alkali, ammonium or alkyl ammonium salts), or any other precursor group for the hydroxyl group;

or a physiologically acceptable salt thereof. Furthermore, the present invention comprises the new compounds:

2',3'-dideoxy-3'-fluoro-2-fluoroadenosine,

2',3'-dideoxy-3'-fluoro-6-thioguanosine,

2',3'-dideoxy-3'-fluoro-2,6-diaminopurineriboside,

2',3'-dideoxy-3'-fluoro-2-aminopurineriboside,

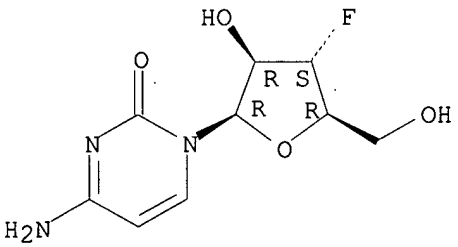
2',3'-dideoxy-3'-fluoro-5-aminomethyluridine,

2',3'-dideoxy-3'-fluoro-5-azidomethyluridine, and

2',3'-dideoxy-3'-fluoro-5-hydroxymethyluridine.

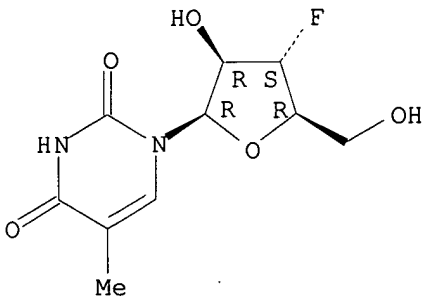
CAS INDEXING IS AVAILABLE FOR THIS PATENT.
IT **56287-14-0P 124493-83-0P**
(prepn. of, for treatment of AIDS)
RN 56287-14-0 USPATFULL
CN 2(1H)-Pyrimidinone, 4-amino-1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 124493-83-0 USPATFULL
CN 2,4(1H,3H)-Pyrimidinedione, 1-(3-deoxy-3-fluoro-.beta.-D-arabinofuranosyl)-5-methyl- (9CI) (CA INDEX NAME)

Absolute stereochemistry.


HO
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